

<110> Karunanandaa, Balasulojini  
 Yu, Jaehyuk  
 Kishore, Ganesh M.  
 <120> NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED  
 WITH STEROL SYNTHESIS AND METABOLISM  
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Met Glu Tyr Ser Tyr Leu Leu Asp Met Ala Asp Lys Thr Glu Asp Pro
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tac atg aga cta gta tat gct tca tca ttc ttt ata tct gtc tac tat      149
Tyr Met Arg Leu Val Tyr Ala Ser Ser Phe Phe Ile Ser Val Tyr Tyr
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Ala Tyr Gln Arg Thr Trp Lys Pro Phe Asn Pro Ile Leu Gly Glu Thr
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Tyr Glu Met Val Asn His Gly Gly Ile Thr Phe Ile Ser Glu Gln Val
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agt cat cac cct cca atg agt gct ggg cat gct gaa act gaa cat ttc      293
Ser His His Pro Pro Met Ser Ala Gly His Ala Glu Thr Glu His Phe
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Gly Val Val Leu Asp Leu Val Pro Pro Pro Thr Lys Val Ser Asn Leu		
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Trp Phe Gly Tyr Glu Val Asp Gly Tyr Val Tyr Asn Ser Ala Asp Glu		
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Pro Lys Ile Leu Met Thr Gly Lys Trp Asn Glu Ala Met Asn Tyr Gln		
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His Phe Ala His Lys Ile Asn Ser Phe Asp Thr Ala Pro Lys Lys Leu		
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Leu Ala Ser Asp Ser Arg Leu Arg Pro Asp Arg Met Ala Leu Glu Lys		
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Gln Arg Ala Glu Lys Arg Asn Arg Glu Ala Lys Gly His Lys Phe Thr		
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Val Ala Pro Tyr Asn Pro Ile Leu Gly Glu Thr His His Val Ser Arg  
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gga aat ctt aat gtg tta ttg gag cag att tca cat cac cct cca gta    255  
Gly Asn Leu Asn Val Leu Leu Glu Gln Ile Ser His His Pro Pro Val  
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Thr Ala Leu His Ala Thr Asp Glu Lys Glu Asn Ile Glu Met Leu Trp  
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80 85 90	
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95 100 105	
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110 115 120 125	
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145 150 155	
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160 165 170	
gtt cta tat gaa gtt gat ggt cat tgg gat agg acc gta aaa gtg aag Val Leu Tyr Glu Val Asp Gly His Trp Asp Arg Thr Val Lys Val Lys	639
175 180 185	
gac aca aat aat ggg aaa gta aga gtg ata tat gat gca aag gaa gtt Asp Thr Asn Asn Gly Lys Val Arg Val Ile Tyr Asp Ala Lys Glu Val	687
190 195 200 205	
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210 215 220	
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225 230 235	
agc aaa gac tgg gag aaa gca aga gaa gca aag cta aaa gtt gag gaa Ser Lys Asp Trp Glu Lys Ala Arg Glu Ala Lys Leu Lys Val Glu Glu	831
240 245 250	
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255 260 265	
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290

295

300

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 Ser Tyr Leu Leu Asp Met Ala Asp Lys Thr Glu Asp Pro Tyr Met Arg  
 10 15 20

cta gta tat gct tca tca ttc ttt ata tct gtc tac tat gcc tat caa 148  
 Leu Val Tyr Ala Ser Ser Phe Phe Ile Ser Val Tyr Tyr Ala Tyr Gln  
 25 30 35

cga acg tgg aag cca ttc aat cca att ctt ggt gag act tat gaa atg 196  
 Arg Thr Trp Lys Pro Phe Asn Pro Ile Leu Gly Glu Thr Tyr Glu Met  
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gtt aac cat ggt ggc att aca ttt ata tca gag cag gtc agt cat cac 244  
 Val Asn His Gly Ile Thr Phe Ile Ser Glu Gln Val Ser His His  
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cct cca atg agt gct ggg cat gct gaa act gaa cat ttc act tat gat 292  
 Pro Pro Met Ser Ala Gly His Ala Glu Thr Glu His Phe Thr Tyr Asp  
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gtt aca tca aaa ttg aaa acc aaa ttt ctc ggc aac tca gtt gat gta 340  
 Val Thr Ser Lys Leu Lys Thr Lys Phe Leu Gly Asn Ser Val Asp Val  
 90 95 100

tat cct gtt gga aga acg cgt gtt acc ctc aaa aga gat ggt gtg gtc 388  
 Tyr Pro Val Gly Arg Thr Arg Val Thr Leu Lys Arg Asp Gly Val Val  
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 Leu Asp Leu Val Pro Pro Thr Lys Val Ser Asn Leu Ile Phe Gly

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140	145		150	
aca ggg gac aaa gtg gtg tat ttt caa cca tgt ggc tgg ttt gga Thr Gly Asp Lys Val Val Leu Tyr Phe Gln Pro Cys Gly Trp Phe Gly				532
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170	175		180	
cct aag ata ctg atg act gga aaa tgg aat gag gct atg aat tat caa Pro Lys Ile Leu Met Thr Gly Lys Trp Asn Glu Ala Met Asn Tyr Gln				628
185	190		195	
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265	270		275	
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280	285		290	
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315	320		325	
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330	335		340	

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Ser Ser Leu Thr Ala Pro Pro Phe Ile Leu Ser Thr Thr Ser Leu Thr		
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Glu Tyr Ser Ala Tyr Trp Cys Glu His Pro Ala Leu Phe Val Ala Pro		
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gca cgt gag ccc gat cct gcg aag aga gcg ctc ttg gtg ctg aaa tgg		240
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Phe Leu Ser Thr Leu His Gln Gln Tyr Cys Ser Arg Ser Glu Lys Leu		
85	90	95
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Gly Ser Glu Lys Lys Pro Leu Asn Pro Phe Leu Gly Glu Leu Phe Leu		
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325

330

335

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cct tcg ttg att gat ggt gaa aac tac aaa gat cac tgt ccc ttt gac Pro Ser Leu Ile Asp Gly Glu Asn Tyr Lys Asp His Cys Pro Phe Asp 60 65 70	665
cca aat gtg gaa tca aag gaa gtg gcg cag atg ttg gcg gtt gtt agg Pro Asn Val Glu Ser Lys Glu Val Ala Gln Met Leu Ala Val Val Arg 75 80 85	713
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235	240		245	
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250	255		260	
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265	270		275	
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280	285		290	
act gaa cat tta tta gtt aag cca atc gaa gaa caa cat cct ctg gaa Thr Glu His Leu Leu Val Lys Pro Ile Glu Glu Gln His Pro Leu Glu				1385
300	305		310	
agt agg agg gca tgg aag gat gtg gca gaa gca atc aga caa gga aat Ser Arg Arg Ala Trp Lys Asp Val Ala Glu Ala Ile Arg Gln Gly Asn				1433
315	320		325	
att agt atg ata aaa aag act aag gaa gaa cta gaa aat aag caa aga Ile Ser Met Ile Lys Lys Thr Lys Glu Glu Leu Glu Asn Lys Gln Arg				1481
330	335		340	
gcc ttg aga gaa caa gaa cgc gta aaa ggt gtg gaa tgg caa aga aga Ala Leu Arg Glu Gln Glu Arg Val Lys Gly Val Glu Trp Gln Arg Arg				1529
345	350		355	
tgg ttc aaa caa gtg gac tac atg aat gaa aat aca tca aat gat gta Trp Phe Lys Gln Val Asp Tyr Met Asn Glu Asn Thr Ser Asn Asp Val				1577
360	365		370	
375				
gag aaa gca agt gaa gat gat gcc ttt agg aaa ttg gcg tcc aaa ctg Glu Lys Ala Ser Glu Asp Asp Ala Phe Arg Lys Leu Ala Ser Lys Leu				1625
380	385		390	
cag ctt tct gtg aaa aat gtg cca agt ggg aca ttg att ggc ggc aaa Gln Leu Ser Val Lys Asn Val Pro Ser Gly Thr Leu Ile Gly Gly Lys				1673
395	400		405	
gat gat aag aaa gat gtt tca acc gca ttg cat tgg agg ttt gat aaa Asp Asp Lys Lys Asp Val Ser Thr Ala Leu His Trp Arg Phe Asp Lys				1721
410	415		420	

aat ttg tgg atg agg gag aac gaa att act ata taa tataaatgtt 1767  
Asn Leu Trp Met Arg Glu Asn Glu Ile Thr Ile  
425 430

tttaaaaagaa taaatatcaa aaattaatac taattgatgt ttgcattgct ttttttaagg 1827  
gaaaatgcaa gcgttttat ttttaacttt tggtttgaa gctcgtaatt caacaaaaaa 1887  
gaattaaata atcttcaagt ccgataacaa gatgtagaaa aaacatccc atgaagttac 1947  
aagtcaaacc attcactgag aattttgtta actcaccacc gatttttgg ataaaatgta 2007  
ttcctgcaac tttttttttt gaagagataa aaagaattga atagaatatg cagtaaaaaa 2067  
agaatctcga aaaaaaaaaagg acaagaaatc ttaactacca tcaaacaatt gaaaattga 2126

<210> 6  
<211> 266  
<212> DNA  
<213> Glycine max

<400> 6

ccattcaatc caattcttgg tgagacttat gaaatggta accatggtg cattacattt 60  
atatcagagc aggtcagtca tcaccctcca atgagtgctg ggcattgtga aactgaacat 120  
ttcacttatg atgttacatc aaaattgaaa accaaatttc tcggcaactc agttgatgta 180  
tatccctgttg gaagaacgacg ttttaccctc aaaagagatg gtgtggcct tgattggtg 240  
cctccctcta caaaaaggtag caactt 266

<210> 7  
<211> 291  
<212> DNA  
<213> Glycine max

<220>  
<223> unsure at all n locations

<400> 7

tcacaacttc agtgctatgg tgaatcagtg tattgcacag gttcggactt gctaagcatg 60  
tgcacaaatg gtcagagtcc acttgatagg ttcataatctg tggtagcatg gtgcataatct 120  
accactcgcc ctgtgacttt tgggttgct cttataatc ccantcttgg tgagacacac 180  
cncgtttcaa gggaaatct taatgtgtta ttggagcaga tttcacatca ccctccagta 240  
actgctctcc atgcaacacaga tgaganggaa aacattgaaa tggatggtg c 291

<210>	8	
<211>	282	
<212>	DNA	
<213>	Glycine max	
<220>		
<223>	unsure at all n locations	
<400>	8	
gtggcccgng acaggtctgg tagctgaaat atcatacatg atcaagccat tgcttttta	60	
gga <del>t</del> tnggg gaagtctgtaa attgatcaaa gggnaaatcc ttgactcatn attactcaaa	120	
ggctctctgcg aagttgatng tcattggat aagatagtta gagtgaagga tacnaatagt	180	
gnagaagtga gagtgatata ttagccaaa gaaggcnnntt caggtctcaa aactcctatt	240	
atcaaggatg tggagagtgt gtggccaacc gaatcagccc tt	282	
<210>	9	
<211>	255	
<212>	DNA	
<213>	Glycine max	
<400>	9	
gttaactccta ccccttgggg tgacttggaa gtttaccaat acaacggtaa atataccaa	60	
cattgtgctg ccgttgatag ttctgagtgc attgaagtgc ctgacatcag accagaattc	120	
aacccttggc aatatgataa tttggatgct gaatagttag catccttgc gaatttttc	180	
tatTTTTTTT aaatatcatt ttgttattaa gtttgtaatg taatcttgat tggaaagcttg	240	
aaatTTGGTT ttgtt	255	
<210>	10	
<211>	250	
<212>	DNA	
<213>	Glycine max	
<400>	10	
taactcctac cccttgggt gacttggaa tttaccaata caacggtaaa tataccaaac	60	
attgtgctgc cggttgatagt tctgagtgc ttgaagtgc tgacatcaga ccagaattca	120	
acccttggca atatgataat ttggatgctg aatagttagc atccttgcg aattcttct	180	

atttttta aatatcattt tggttattaag tttgtaatgt aatcttgatt ggaatgcttg 240  
aaatttggtt 250

<210> 11  
<211> 283  
<212> DNA  
<213> Glycine max

<220>  
<223> unsure at all n locations

<400> 11

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catcttccaa cttgcttaagc caatgcaaac agtgggcaga gtccactgga caggttcaca 120  
tcagtagtag catggagcat atctaccaca cgccccacat cttttggtgt tgctccttat 180  
aattccactc ttggagagac ccaccatgtt tccaaggga atctcaacgt cctagttgag 240  
caggtttcac tcaatcctcc agtatctgcc ctccatgcaa cag 283

<210> 12  
<211> 255  
<212> DNA  
<213> Glycine max

<400> 12

ggagagtgtg tggccaaaccg aatcagccct tgttggagt gagttgagcc aagccattat 60  
gaacaaaagat tggaaagag caagagaagc aaagcaagac gtggaagaaa gacagaggaa 120  
tatgttgaga gacagagcca tgaaggaga aacttggttt cctaagaatt ttagggtgtc 180  
ttacagtaaa gacacatggg aatggactg ttcaccaact cataaatggg tccctgaggc 240  
ccccatcata gctca 255

<210> 13  
<211> 259  
<212> DNA  
<213> Glycine max

<220>  
<223> unsure at all n locations

<400> 13

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atggtcccag caacctgttc caaagttcg gggtacatct atgaagctca agtgcacgg 120  
aaacgtcata tgtttctcca tgatttagga gcttcagctg acgtttacca tgcacttgag 180  
ctgangctcc taaatcatgg agaaaacatat gaaatgaatt gtcctcacct ttcaattaga 240  
attttccgg ttcctggga 259

<210> 14  
<211> 355  
<212> DNA  
<213> Glycine max

<220>  
<223> unsure at all n locations  
<400> 14

gcagctttg ctgtgtctag ctatgcgtca actgaangtc gacaatgtaa accttttaat 60  
cctttactcg gggagaccta cgaagctgac tatccagata aaggacttaa gttttttct 120  
gaaaaggta gtcatcatcc aatgattgtt gcttgcact gtgagggaaag gggatggaag 180  
ttttggcag attctaattt gaaaggaaaa ttctggggc gttctatcca gttagatcct 240  
gtgggtgtcc tcactctaca gttgaggat ggtgaaacat ttcagtggag caaggtcacc 300  
acttcgattt acaatatcat actangtaaa atttattgtg accactacgg tacca 355

<210> 15  
<211> 279  
<212> DNA  
<213> Glycine max

<220>  
<223> unsure at all n locations  
<400> 15

cagattcga ggaggaagct cagagaggaa gatggaaaca ggagggaaaga gatggttact 60  
ggaagatgat gcagaagtat attggctcg atgtaacatc aatggtgaca ctaccagtt 120  
ttatatttga accaatgact atgattcaga aaattgctga gttgatggag tactctact 180  
tgttagatca agcagatgaa tcagaggatc catacatgca gtttagttat gcaatggatg 240  
tacttnatgt atcatcacag catccatggg ccatatcgg 279

<210> 16  
 <211> 191  
 <212> DNA  
 <213> Glycine max

<400> 16

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gtttagatgtttt ctgagtgcat agaggtgcct gacagcagaa cagaattcaa cccttggcaa 60
tatgataatt tggatgctga ataataagca tcctttaga attctttcta ttcttgaac 120
tatcattttt ttatataagtt tgcaatgtat ctgattggaa tgcttggaaat ttgggtttgt 180
ttttggtaa a 191
  
```

<210> 17  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<220>  
 <223> unsure at all n locations

<400> 17

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tcaactcctt ggggtgattt gaaaatctat caatataatg gtaaatacag tgaacatcga 60
gctgctgcag ataactcagg aagcattgtat gatgtttagt ctaaatcaat tgaattcaat 120
ccatggcagt atggtaattt gcccacggaa tgaacttagtt tcaatttctt tgggtttgga 180
tgnncnccgtt agttcatgtt actntnnncn antganacna gaanacaact ncctncnnca 240
ncnnnnngtt agttggcng tgtacgc 267
  
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<210> 18  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<400> 18

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gtcttataga gctccaaatc tcctacatcg cttgttaagt ttactcaaga acgtgcggcc 60
aggatcagat ctcacacact tccaactgcc agctgtgttt aacttcccaa aatctcaact 120
tcaatgtat ggtgaatcag tgtactgcac atcttcaaacc ttgctgagca aatgcaacaa 180
tggcagagt ccactggaca ggttcacatc agtagtagca tggagcatat ctaccacacg 240
ccccacatct tt 252
  
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<210> 19  
 <211> 241  
 <212> DNA  
 <213> Glycine max

<400> 19

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gtcagtcatc accctccaaat gagtgcgtgg catgctgaaa ctgaacattt cacttatgtat 60
gttacatcaa aattgaaaac caaatttctc ggcaactcag ttgatgtata tcctgttggaa 120
agaacgcgtg ttaccctcaa aagagatggt gtggcccttg atttggtgcc tcctcctaca 180
aaagtttagca acttgatttt tggacgaact tggattgatt caccaggaga gatgatcctg 240
a 241
  
```

<210> 20  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<400> 20

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tctcgagcct attcggctcg aggccaaaga agccatttca ggtcactaaa ctcctattat 60
catatgatgt ggagagtgtg tattcaacccg aatcagccct tgtttgaggt gagttgagcc 120
aagccattat gaacaaagat tggaaagag caagagaagc aaagcaagac gtgaaagaaa 180
gacagaggaa tatgttgaga gacagagcca tgacaggaga aactggttgt ctaagaattt 240
agggtgtctt acagtaaaga ca 262
  
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<210> 21  
 <211> 463  
 <212> DNA  
 <213> Arabidopsis thaliana

<220>  
 <223> unsure at all n locations

<400> 21

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gggaaacccc ttccaggaac agagctgaaa gaggtgtggc atttggctga tgtccccaaa 60
aacgacaact ttcaagtacac tcactttgct cacaagataa acagttcga cacagcgcct 120
gctaagctct tggcttcaga ctcacgtatc cgtcctgata gatattccct tgagcagggt 180
  
```

gacctttcta aagctggttc cgagaaaacac agccttgagg agagacaaag ggccgaaaag 240  
aggaccagag agacaaaggg acaaaagtgc actccaagat ggttcgatct aacggatgag 300  
atcacaccta ctccatgggg agatattgaa gtataccant acaacgggaa gtacaatgaa 360  
caccgagaca cggcagagag ctcaagttagt gcctccaacg aaacggact caaatccatc 420  
gagtttaatc cttggcaata tgtaatatac tcaaccgaat gaa 463

<210> 22  
<211> 399  
<212> DNA  
<213> Arabidopsis thaliana

<400> 22

agtgaacctc tcccaggcac cgaactgaaa gaggtatgga aactcgctga tgtgccaag 60  
gatgacaaat atcaatacac tcactttgct cacaagatta atagcttcga cactgccccg 120  
aaaaagctgt tgccctctga ttacggta cgacctgata gatacgcact tgagatggc 180  
gacatgtcca aatcaggcta tgagaagagc agcatggaag agagacagag agctgacaag 240  
agaacccgca aacataaagg ccaaggctt actccaaaat ggttcgatgt aacggaagaa 300  
gtcactgcta caccatgggg tgcactggaa gtttaccaat tcactggaaa gtactcagaa 360  
catcgtagcag ctgcggataa ctctgaagat aagaccgac 399

<210> 23  
<211> 343  
<212> DNA  
<213> Arabidopsis thaliana

<400> 23

acggacgcgt gggcaactcc aatgttacgg cgagatggc tacagcttcg tcggcagga 60  
tctgcttggg gaatgcagcc gccgtgatct tcccattgaa cggctcaaat cagtggtgac 120  
gtggaacatc tccacactcc gtcgggtggt ctggcatg tctccgtaca actccgttct 180  
cggcgagact caccacgtat cgaacggtca catcaacgtc atcgccgaac aagtagtgca 240  
tcatcctccg gtttccgctc ttcatgcgac tcacgaacaa gaaaatatcg acgtgacatg 300  
gtgtcaatat ttcaactccata aatttcgtgg tactcacgtg gac 343

<210> 24



<220>  
<223> unsure at all n locations  
  
<400> 26

cgttggtggc ngcggaaagtg gtttcttcgc ctctcttgct tcgtcgatct ccaatttngg 60  
ntctgctatg accaaatcag ttaatggttt ggcccttat gagggacttg aagttatcaa 120  
tcctgaagga agtacagatg atgctgagga ggaagcaagc agaggaagat ggaagcaaga 180  
ggatcgagat ggctattgga agatgatgca gaagtacata ggatctgatg ttacatcaat 240  
ggtgaccctt cctgtgatta ttttgaacc aatgacaatg cttcagaaaa tggcggagtt 300  
gatgaaatac tcgcacatgc tagacatggc agacaaaacc gaggaccctt attncgcat 360  
ggtgtatgca tcacatcgaaa 380

<210> 27  
<211> 359  
<212> DNA  
<213> Arabidopsis thaliana

<220>  
<223> unsure at all n locations  
  
<400> 27

ggtaatgaag gagttgaggt cataaatcca gaaggtggca aggaagatnc tgaagaggaa 60  
gctcagaaaag gaagggtggaa ggacgaggaa cgagatagtt actggaagat gatgcagaaaa 120  
tatatagggtt cggatattac gtcaatggtg gctcttcctg ttgtnatatt tnancctatg 180  
actatnctcc anaagatggc tgagataatg gagtattctc attntttgga tcaagcagat 240  
gaatgcngag atccataactt gctgttagta tatccttcatt catggggat atctgtttac 300  
tatggccttc caacggacct tggaaaggcatt tnaatccnat tcttgggggg gnnanttna 359

<210> 28  
<211> 510  
<212> DNA  
<213> Arabidopsis thaliana

<220>  
<223> unsure at all n locations  
  
<400> 28

aaaagagaaaa agtgttagcc ttggtaat gatcaaagac antataggaa aggntctcac 60

aaaagtctgt cttcctgttt acttcaacga gccactttct tctttacaga aatgtttga 120  
ggatttggaa tattcgtaacc ttcttgaccg agcattgaa tatggaaaaa gggaaatag 180  
cctcatgagg atacttaatg tagctgctt tgctgtatct gggtatgcat caactgaagg 240  
aagaatttgc aaacctttta atccattgtt aggtgaaaca tacgnggcag actatccaga 300  
caaaggcctt cggtttttt ccagggaaagg tcagtcata tcctatggtt gtcgnatgcc 360  
attgtgatgg cacnnggtgg gaattcttgg gggacagcaa tcttnnnnnnccaaattttggg 420  
gcgntctntt tagcttnacc cccttgggaa ttnnccttna aattnatgat gggaaancn 480  
caggggggaa gngccacc atnncaaacc 510

<210> 29  
<211> 493  
<212> DNA  
<213> *Arabidopsis thaliana*  
  
<220>  
<223> unsure at all n locations  
  
<400> 29

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ccttcccaa tnggnnttgg gngngccccc ttggangggg ccggggcttt aaagggccccc 120  
ncgnaggaa ggccagcctt tctcccaaatt ggtcgatgta ccggaggaag tcactgctac 180  
cccatggggt gatctggaag tttcccaatt caatggaaag tactcgaaac atcgtgcagc 240  
tgccgataac tctgaagata acaccgaccc taagtcgatc caattcaacc catggcaatt 300  
ccaagatctg tctactaaa tgtatcgctc caaaagacag aaaagatcaa atcttttgg 360  
aaacaaatgt attcttattc tctcgtagtt acaaaaaact ttgttctaca tctgctagct 420  
ttcccatattgc tttctctagt attagtgtac aacttctact gttttgtctt aaattcattc 480  
aaatctttct ttg 493

<210> 30  
<211> 1305  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 30

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aacggagatc tatcgcttt gtctgcacca cggttattc ttctccac ttccctaaca 120  
gagtttctc agtattggc tgaacatcca gctttattc tggagccttc gttgattgat 180  
ggtaaaaact acaaagatca ctgtccctt gacccaaatg tggaaatcaaa ggaagtggcg 240  
cagatgttgg cggtttagt gtggttatt tctacttga gatctcaata ctgctctaga 300  
agcgaatcga tgggttctga aaagaagcct ttgaacccat tcttgggtga ggtatttgtt 360  
ggaaagtgga aaaatgatga gcatccagag tttggtaaa cggttcttt aagtgagcaa 420  
gttcaacatc atccacctat gacagcatt tcgattttt ataaaaaaaaa tgatgttct 480  
gttcaaggat acaatcaaata taaaactggt tttacaaaaa cattgacgct aacggtcaaa 540  
ccatacgggc atgtcatttt gaagattaaa gatgagacct acctgattac aacccgcct 600  
ttgcatatcg aaggtatttt agtcgttct ccattgttg aattaggagg caggtcattc 660  
atacagtcat caaatggtat gttatgttt atagaatttt caggaagggg gtatttcaca 720  
gggaagaaga actccttaa ggcaagaatt tacagaagcc cacaagagca tagtcataaa 780  
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aagcaaagag ctttgagaga acaagaacgc gtaaaaggtg tggaaatggca aagaagatgg 1080  
ttcaaacaag tggactacat gaatgaaaat acatcaaata gtttagagaa agcaagtgaa 1140  
gatgatgcct ttaggaaatt ggcgtccaaa ctgcagctt ctgtgaaaaa tgtgccaagt 1200  
gggacattga ttggcgccaa agatgataag aaagatgttt caaccgcatt gcattggagg 1260  
tttgataaaa atttgtggat gagggagaac gaaattacta tataa 1305

<210> 31  
<211> 1200  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 31

atgacagtct cacacaatca ttctacgaag atatccaaac aaccaatctc ctggatca 60

gcatttaagt tcttcggaaa gaagctgtta agttcaagcc atggaaacaa gttgaagaaa 120  
aaggcgtctc taacctccaga cttccactct acaagtacta atgacagcga atcctccagc 180  
ccaaaactgc cgaattcggtt gaaaacctct cgccgtgcaa actctttcgc tcacacaacc 240  
aacagcaaga gatcttatac ttccgcctca accaagatcc tacctccggc cggctccagc 300  
acgtccatct caagaggaaa cagacattcg tccacttcgc gtaatctctc aaactccaag 360  
ttcagtagcg aacgattagt gtacaatcca tacggcgtct caaccccaag cacgtcactc 420  
tcgtccgtct ctacctccat gaagaaagac cctgatctgg gcttctacct tcacgatggg 480  
gattccaaaa tccgcgtct gccgatccc attgtggacc caaacgagta tctgcccac 540  
gagatgaagg aggcaagcat ccagttgagc gataacttcg tctttgatga tgagaataag 600  
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gacgtatttg ctctaaagaa gctcaatatg atctataatg aaacgcccga gaaattctac 720  
aacgctgctc caaaggagtt tatcatcgca aagcagctaa gtcatcatgt tcacatcaca 780  
aatactttcc ttctagtc aa ggtgcccacc accgtctaca ccactcgcgg gtgggggttc 840  
gtcatggagc taggtctacg agatttggc gcgatgatac aaaaatcggg ctggcgccac 900  
gtggccctag cagaaaagtt ttgtatattc aaacaggtgg cgtgtgggt caagtttgc 960  
cacgatcagg gcatcgccca ccgtgatttg aaaccggaaa atgtactgct atccccggac 1020  
ggcgtgtgca agctgacaga ttttggtatac tcagactggc accaccacgg atccacacga 1080  
cctgtccagc cctgtcaaga agtgcgcagg gatgatcggc tcgcccggcgt atgctcccc 1140  
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<210> 32  
<211> 309  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 32

atggatcatc cacataagt gcaccgtaag ctctgtcaatt gcaacagcga ctttattttt 60  
aagagccgct gtcattttgt tagtatctct tctcaacttg ggcagcacaa tttcacgata 120  
tttaacaggt atcatttgaa aaaaagaatc gttttccaga tactcgtcaa ttccctcggtt 180  
cggttctctg aacaaaactt ctgcattacg caaatgagg ctggcatatg gaagcagttg 240

ttcaactctc cccaaagttt tcacatact gatataccat cagaagaagg taccaaagtt 300  
attctataa 309

<210> 33  
<211> 4014  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 33

atggagcaca gatataacgt gttaatgt actccacgag ggaaccattg gatggcagt 60  
tctgtgtcag gatcaccacg tccatcttat agcagtcgtc ctaatgtaaa cacaacacga 120  
cgcttccaat atagtgacga tgagccgct gagaaaatcc gaccttacg ctcgaggagc 180  
tttaaaagta ctgaaagtaa cataagcgat gaaaaatcaa ggatatctga acgtgacagc 240  
aaagaccgct acattaatgg tgataaaaag gtagacattt attcactgcc tctaataatca 300  
accgatgttt tagaaatttc caaacaaagg acattgcgg tgatattgtt ttataataatt 360  
caatgttata aaatataatga cctggtaata cttaaatcgg ggttaccgct ttcgggtta 420  
ctgtatgttt taccatcctt taacattcct aggttactt ttaagccatg ggttgttat 480  
ctccagattt tagctatgct actattgaac atttcatat caagcgatca cgagttcggt 540  
ttgatttcat taattatgac cacatggaga aaactttata cggaaagaatt aagtgtaaaca 600  
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<213> *Saccharomyces cerevisiae*

<400> 39

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<213> *Saccharomyces cerevisiae*

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<210> 44  
<211> 4104  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 44

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<211> 318  
<212> DNA

<213> Saccharomyces cerevisiae

<400> 45

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ggtataataa ccaaaaatagc agcttcaccg ttcgttaattt ttcttttattt caatactgca 180  
tttttaatc cttaaagac ctttacgaa aatgaaaaaa aaaaagccaa gaaaaacttg 240  
aaactgacgc gcgaaaacgc gtcactaaggc ataaggaaaa tgcataataa cagtggcatt 300  
attccaagtg ggacctga 318

<210> 46

<211> 309

<212> DNA

<213> Saccharomyces cerevisiae

<400> 46

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cccagcatca ttgatgttac atatactatg cacgtttttt atatgacgat aatacttatt 180  
ttggcagga agcaaatgca gtccatacat gcgtttctgg gtagtttatg cttaccctcc 240  
cacgtgctag attttcgat tgtaagagat attttatcat ggtatccct tgagacagtc 300  
gcagttatga 309

<210> 47

<211> 1110

<212> DNA

<213> Saccharomyces cerevisiae

<400> 47

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gttggatgatt taaaacctgg ttccctcggttcc atagcagatc acaaattttc caaaccacta 180  
gaactgaata acacaaatataa aaatcagctt gaccaatggaa ttgagcattt gagtaatgc 240  
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ttcgaggaga atgttaaacc aattaacgtg cctgttacca tttgtggta cgtacacgg 360  
caattccatg acttgttaga acttttaag attggtgcc ctgtcctga caccaattac 420  
ctttcatgg gtgattacgt ggatagagga tattattctg ttgaaactgt atcttaccta 480  
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tcagaccctg acgatagagg cgatgggaa atcagtcctt gaggtgcagg cttcactttt 840  
ggacaagatg tcagttagca attcaatcac actaatgatc tatcactaat agcaagagct 900  
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<211> 1557  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 48  
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aaatggaaaa acatagttac aatcattgcg tccgggtttt ctctgataag tgatggttac 180  
gtaaatggtt caatgagttat gctaaacaag gttttgtta tggagttacgg taagaaaaac 240  
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caattctta tgggtatcgc tgctgattat tataatgaa aatcttgcgtat cttgtggcc 360  
actgctatct tggttattgg tagtgctctg tgtgctgcct ctcacggta tactgtaccc 420  
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tatcctacca gtacatataag tgctaatgag tctgctaatg aatataaccac taccaaaaga 540

ggtggtatcc tggttatggc gacaaatttgc ccactagcct tcgggtggcc atttgctacg 600  
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tttggatgaga cagatgaaga atcaatggtt agaactattt aagttgaaga gaatggact 1500  
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<210> 49  
<211> 2706  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 49  
  
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tacaagattt taaaacaaat aggtgaagga agttttggaa aagtatattt agcgctccat 180  
agaccaacac atcgtaaagt ctgcctaaag acgagtgata agaatgatcc caatatcggtt 240  
agagaggtat tttaccatag acagttcgat tttccttata ttacaaagct ttatgtgt 300  
atagtgacag aatcaaaaatgttggatggca ttggatattt gcccaggaa ggaatttat 360



ccgagctata tacaaaaagg ctctgaaact acctcgagt attcagcttc atccgaaaa 2040  
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ccagttgtga ccactgataa taggcgcaat aaaaacaata atctgaaaga gtctgtttg 2220  
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aaggaaagg gtcttccaac accagtttg caaactaaag gattaataga aaatgggtt 2460  
aacgaacgca atgaagaagg agatgacgag tatgcaattc acactgacgg agaattttct 2520  
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<210> 50  
<211> 942  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 50  
  
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acctatcatt cagatgaatc tttaggcata aaacattcag attatataac ttcccaagat 180  
gaaagaaaat tgaggcgaa gatcatctcc gcagtaaaa gagatctatc taaaaacaag 240  
atagtcattt tagactcggtt gaattatatc aagggtttcc ggtatcaact tcactgcgag 300  
gtgaaaaatt tgtccaccac attttgtgtatccaaacac tgtgtccacc agagactata 360  
ttcgagtgaa ataagacttc aaacccgaac cttggaaac ccgagttatt gaatcaattt 420  
attcaacgat acgaagagcc taactcaagc aaccgatggg actctccact ctttgctatt 480  
cttactcctc aggacaacat aactgactac atcgacgata tttgtaaagt agtctttcaa 540  
acttccaaat cggctaaaaa cagtggacac aatgatccgt tgagtaaggg cttacaaaaa 600

ccgaactcag ccacggtaact aaaggctgct ttcagtcca atttcatcca gtttcgtac 660  
atcgaaacta gtaagataat aaaaaccata atgaaccaca tcaaaagcct gacttctatt 720  
ggcggggtaa gtaacggaac aagagtcatt gttccgaag ggattaccga tatcaatgat 780  
gatggttgtct ttccgtaga cttgccatt gtaacgtcg ttacgttgc gcaattgcag 840  
agattgaaaa ggcaattcat taacttcaac aaactaagag atatagatca agataggatc 900  
ggtccgcttt tcgctgatta ttcaacaaa aacttgaatt ga 942

<210> 51  
<211> 765  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 51

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caagatcaaa ttaacgaatt gaacgttatt ttgaacgatg tcaaatctca cttgcaagag 120  
tacatttagct tagttctga ttcttcctct ggattttcct taagcagtat gccagctgg 180  
gttttgata tcggtatggc tttagcttcc gccactgacg actcctacac tactttgtac 240  
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tcttctgctg ctccaaacttc ttctgctgcc ccaagctcat ctgctgcccc aacttctct 420  
gctgcctcaa gctcttctga agctaagtct tcttctgctg ccccaagctc ttctgaagct 480  
aagtcttctt ctgctgcccc aagctctct gaagctaagt ctcttctgc tgccccaaagc 540  
tcttctgaag ctaagtcttc ttctgctgtc ccaagctcca ctgaagctaa gataacttct 600  
gctgctccaa gctccactgg tgccaagacc tctgccatct ctcaaattac cgatggtaa 660  
atccaagcta ccaaggctgt ttctgagcaa actgaaaacg gtgctgctaa ggcctttgtt 720  
gytatgggtg ctgggttgtt cgagctgcc gctatgttgt tataa 765

<210> 52  
<211> 1407  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 52

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tttcttggag ggtctgcgcc atatttctcc tttcccgcta actacggat acccactgat 180  
attcctgaag gttgttagatt aacgcaagtt caaatgattt gcagacatgg cgaaaggat 240  
cctaccagaa gtgaggccaa ggatattttt gaagtatggt ataaaatatc caattacaca 300  
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acaggagaaa tgaatgaaa gagacatgca agggagttt tagaaaaata tggaaaattt 480  
atggagaact gtaccaactt tcctatcttc accacaaatt cgaaaagaat ctacgatact 540  
gcgc当地 atttggccgaggc ttggggcgat ggcttaata tatcacttca aacacttagc 600  
gaaaattcct cgtcaggagc aaacacatta gctgaaaaa gttcgtgccc caattggat 660  
tcgaatgcca acaatgatat attaatgtca tattcgaggg actacttaga aaatattcc 720  
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tataacgcatttgc tcaataa 1407

<210> 53  
<211> 1863  
<212> DNA  
<213> *Saccharomyces cerevisiae*

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gactcattaa aacatatagt tgacgccaga aacagcttat cagagacact gctaaatagc 180  
aacatgtatgg gtagtataca caattctgac cagaatactg gtttgaataa agacaaagag 240  
gcttcaatag cagataacaa tagtgctaac aagtgcgcca caagctttc ccgttaccaa 300  
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gaggatttca agattgagtt acacttggat ttgaacacaa aagaatatgt cgaagaccga 660  
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tttgcaagg atataataga atttaggaca aaagttgtca gtatagagaa agaaaaaaaaa 900  
atgaaaaagta cgtacgagga aagtaggcgt caaagacacc aaatgcaaaa agttttgtat 960  
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aaagaagaaa gagacctgga agaatcaa at cgtagatatg aggatatgtt acaccaatta 1140  
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gagaactata acgcccacaa gaatgtgtct gagagctcag aacacgtcaa gatcaaattc 1500  
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aacatcccg 1800  
aaccatcccg tgaaccagag caaacaggcc cttaatcg 1860  
gaggacgggg aaacgatagc tgatagactg tggagtcgta aagaatttcg cttggggacc 1860  
tga 1863

<210> 54  
<211> 474  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 54  
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aaatgtctcc tatcatgcag cgaggctgt tcctctttt ctttctccct ttcctttgt 180  
aacaacgatc ccaagttac ttcagtgcgtt ggtcttggga ccaccggatt atcattcact 240  
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agaggttccg gctgcggctg cgctgtaga ccggattctt ttatctcac tgcgtcgcca 360  
ctggaagccc ttctccctt acaaaagcct cttggaaatg aaggaggtaa cagggtacag 420  
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<210> 55  
<211> 897  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 55  
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tacgtttctg atattggcgc ccatttatct gaatattacg ctttccaggc tttgcataag 180  
actgaaacat acccacctga aattgccaag gctgttttg ccggtggcga tttcaccacc 240  
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tctactagat tgatgggtgc tatttccgaa gcacttgcga atggaggtat tgctactgca 360  
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caagctactg tttcatctga atctagctct gctgcaagca ccattgcaag ttctgctgaa 540  
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tctgtcacat cgtcagcatc tcgtgttatt gacgttacca ctaacggtgc taacaagttc 840  
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<210> 56  
<211> 2508  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 56  
  
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gctatcaatg atgacaattc tgtcattgct attaattcta acaccatgga caaattggaa 180  
ttgttccgtg gtgacaccgt tctcgtaag ggcaagaaga gaaaagatac tgtcttaatt 240  
gtgttgcattcg atgacgaatt agaagacgga gcatgcagga taaaccgtgt agttcgtaac 300  
aatttacgtt ttaggctggg tgattttagt acaattcatc cttgccccga tatcaaatac 360  
gctactagaa tttctgtgtt accaattgct gatacgatcg aaggataaac tggtaatctt 420  
ttcgatgttt ttttgaagcc ttatTTTGTG gaagcctaca gaccagttag gaaaggcgcac 480  
catTTTGTG tcagaggcgg tatgagacaa gtcgaattca aggttgtgga tgtcgAACCT 540  
gaagaatatg ccgtcggtgc tcaggatact attattcaact gggaaaggta gccaatcaac 600  
aggaaagatg aagaaaataa tatgaatgag gtgggttacg atgatattgg tggttgtcgt 660  
aagcaaatgg ctcaaattag ggaaatgggtt gaactaccat tgagacatcc tcagttgttc 720  
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gaagaagccg aaaagaacgc tccagccatc attttatcg atgaaatcga ttctatagct 960  
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ttaatggatg gtatgaaggc aagatcta at gttgttgtca ttgctgctac caatagacca 1080  
aattcgattt atcccccttt aagaagattt ggttagattcg atcgtgaagt cgacattgg 1140  
atcccagatg ctacaggtag acttgaagtt ctacgtattc acaccaagaa catgaagttg 1200  
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gat tagatg aagatgaaat ttagtcagag gtgctcgatt cttaggatg caccatggac 1380  
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gctatgaaga ccgctaaacg ttctgtttca gatgctgaaat tgcgtcgat tgaagcatac 2340  
tcacagcaaa tgaaaggcatc tagaggtcaat ttcagtaatt tcaactttaa tgacgctcca 2400

ttaggtacta cggtacgga caatgcta ac agtaataata gtgctccaag tggaggcagg 2460  
gctgcatttg gttcta atgc ggaggaagat gatgatttgc atagttgc 2508

<210> 57  
<211> 651  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 57

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aaaaaggacc gattgggtga tattttgcat attatcttgc gagcatgtgc actcaatttc 180  
ggggcggggtc cccgtgggtgg cgctggtgac gaagaggatc gatctattac gaatgaagaa 240  
cccattattc cctctgtgga cgagcatggc ctgaaagtat gtaagttgcg cagtcctaac 300  
actccacgaa gactcagaaaa aacactagat gccgtgaaag ctttattggt gtcgtttgt 360  
gcttgttaccg caagggattt agatataattt gatgacaaca acggcggtgc aatgtggaaa 420  
tggatcaaaaa ttctgtacca cgaagtagcg cagggaaacca cgctgaagga ctcttataga 480  
ataactttgg taccttcttc tgatggtata tcagataccc ttaccgttat ccagagcttc 540  
agctactcgc ttttgcggc cctcagcgca acgtatacgt cgatgataca acaagacgca 600  
tccaactgtta cactgattac aacaagaacg gttcatcgga gcctcgacta a 651

<210> 58  
<211> 345  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 58

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ccttgcaaaaa attgctatgt ttttcttgc cttggatttg ctgcgtggag atatatattc 180  
tcatatcagg acggaatttt acaaagttag aactctaaat ggtgttagaa agagaagaaa 240  
aaaaaatgct cagcgattta ccctcattac aaccaccgag attcactagg aaacggagct 300  
gtccctcgga atttatttgc aacatatcat ccaatgttaa tgttag 345

<210> 59  
<211> 552  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 59  
  
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gccccgaaat tgagtgcaca tgctcgcaag ataatatgca aaatatcacc caatcggtcc 120  
tttttgttca tcataatcgtt acatatctgt gaaaagtact ttatctcaat gggtttacgt 180  
ggccatagat cacgcttcag ccgctctgtg tcgactttct tttcgccagg taaacttgct 240  
tgcatacgctc atctacgtgt aggctgccaa attgtaccca tatttcctta tggtgcttt 300  
ctgaagactc cttacaatag gtgcgccgga aacaaagtca gtgaaagtac gcatcgtaga 360  
gctgtcggtc ggcctagcac tcgctatttc gtgacaacgt tccaggacac ggaaactcaa 420  
ctcattatag tatcctctgt tgaggtaaaa aagagaaaagg gtatcgtaat cctttctatt 480  
gaatttcaaa gtatgcactt gaaacaacgt gtagaccatc aagttgattt tcttggAAC 540  
aagataacttt ga 552

<210> 60  
<211> 1599  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 60  
  
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atctcattgc aaagaccgtt gggcttagat aaggacgttt tgctgcaagc tgccggaaaaaa 120  
tttggtttgg acctcgacct ggcacatctc ttgaaggagt tggactccaa tgtattggac 180  
gcttgggccc aaatagagca tttgtaccca aaccaggta tgagccttga aacttccact 240  
aagccaaaat tccctgaagc aatcaaaacg aagaaagact gggactttgt ggtcaagaat 300  
gacgcaattt gaaactatca gcttcgtgtc aacaagatta aggaccctaa aatcctgggc 360  
attgacccaa atgtcacaca gtacacgggt tacttggatg tggaaagacga ggacaagcat 420  
ttcttctttt ggactttga aagtagaaac gatcctgcaa aggatccggt catccttgg 480  
ttgaacgggg gtccaggttg ttcttcacta accgggctgt tctttgaatt aggaccctca 540

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gtgatcttcc ttgaccagcc tgtcaacgtt gggttctcgt attccgggtc ctcagggttt 660  
tccaacactg tcGCCGCTGG taaggatgtc tataacttct tggagttgtt cttcgatcag 720  
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ttgagagtct tcaatggtgg ccacatggtt ccatttgacg tccctgaaaaa cgccttaagt 1560  
atggtaacg aatggatcca cggtggtttc tccttataa 1599

<210> 61  
<211> 1107  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 61

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ccacataacg ccaaattcga agtacgtata ttAAACAAAC tggcaacaa atgtaagcac 180  
atcttacctc ttcttagAGTC taaggctacc gataataatg acctattgtt gttgtttccc 240  
tttgaagaga tgaaccttta tgagttcatg caaatgcact ataaaagaga tagaagaaaa 300

aaaaatccct attacgattt gctaaatccc agtatccaa ttgttgcgga cccccccgtt 360  
cagaaatata ctaatcaatt ggacgtcaat cggtattctt tgccttttt ccggcaaatg 420  
gttgaaggga ttgcattctt acatgagaac aagatcatc accgcgacat caaacgc当地 480  
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tatgatggtg gcgtggacgt gtggtcgttg ttgataatta tttctcagtg gttccagaga 720  
gaaacaagcc gtatgggca cgttccggcc atgattgatg acggcagcga cgacatgaac 780  
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<210> 62  
<211> 1647  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 62  
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tcggacctat acaacaaaga acgagatgga agtacggaag agacttaaa ctcttgaag 180  
tttttacata aacctcagag agtaactcaa atgagagcga acaggttccc agaggaagaa 240  
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gataatgaga gcggctggc aaaaattgcc gctgccaaga atcacacttc cgtagaatca 360  
ttaaatggca gtacgagacc cccattcaaa atagagctgc ctccccttc ccccaaatcc 420  
accgtaccaa aatctttca agcagaatat cccgaagcta agtcacctgg caatgatatg 480  
aattttgaat atgatgaaga aattctaatt ccatttgcgc cacctgtata taaaaagtca 540

ggtgaactat tgaagagctc attgaagaga agatcaaaat cattacctac aacccagg 600  
ataaggagcg ggaatggtgt ccaagcaaga gacggtagtc cgatgttgat taggagtaag 660  
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cctcgccggca agttagaatt ttgcattcat tattctacac gtaacgacta tgagcgcgaa 1560  
gagtactggg acaacaacaa cggaataat tataaggtgg atgtttaat ggatggctt 1620  
aacgatccct tcgccccggc agcatga 1647

<210> 63  
<211> 1593  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 63

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gtagaattgc atagaaccaa cgaattcatt gataataagc cgtcctttt caataggatt 180  
gcagctgctt taaatgctga gacgaaaggt attgaaccag ttacagaaga tgaaaaaaat 240

gatgactcg a tactcaatgc cgccactata tggtttcag ctaatatggt gattgttagcc 300  
tattccgtag gtgccttggg tcctctagta tttggcctaa atttcggcca aagtgttta 360  
gttatcattt ttttcaatat tttgggttt atccctgtt cattattctc actttttggg 420  
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gcaggttgtt tgattattgc tgggtgtacc gtgcttgtga cttttttgg ttacagtgtc 660  
gttcatgcat acgaaaaatg gtcgtggta cccaattttg ctgcctttt ggtcattatt 720  
gcccaactat cgagatcagg aaaatttaaa ggtggtaat gggtaggggg tgcaactact 780  
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agacctttag aactcaaata ttccgtcg a 1593

<210> 64  
<211> 651  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
<400> 64

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aaaaaggacc gattgggtga tatttgcatttatcttgc gagcatgtgc actcaatttc 180  
ggggcggggtc cccgtggtgg cgctggtgac gaagaggatc gatctattac gaatgaagaa 240  
cccattattc cctctgttgc cgagcatggc ctgaaagtat gtaagttgcg cagtcctaac 300  
actccacgaa gactcagaaa aacactagat gccgtgaaag ctttatttgt gtcgtttgt 360  
gcttgcattcg caagggattt agatataattt gatgacaaca acggcggtgc aatgtggaaa 420  
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<211> 405  
<212> DNA  
<213> *Saccharomyces cerevisiae*

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acacatataat tggtaagctt ccaggaagac aattgggtat ttggattatc ggccgtattg 180  
agaatccttt tctttataca acgcatagaa tctttggat ttacccttct agatcttaac 240  
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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 67

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catatgaaaa acaacacctcgta aactaaatgg ttgaatcggg tcttgcacac gtcgctaaag 180  
atggtatggt acgtgtaccg tggattcaac aactcccttg gcgtctgtat catctgcttg 240  
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<210> 68  
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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 68

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gaagtttagtt cggtaacaaa tggtagtagat tcttttcat tctcgaaggc tggagaagta 180  
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tttga 366

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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 69

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caacctccaa ttacatcgac ggattttaca atcaatggta ttaagccatg gcaaggaagt 180  
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<210> 70  
<211> 1554  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 70

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<211> 315  
<212> DNA  
<213> *Saccharomyces cerevisiae*

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<210> 72  
<211> 5619  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 72  
  
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<210> 74  
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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 74

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<210> 75  
<211> 939  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 75

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gctaacaaag tcactaaaaa caagagtaat agtagtccgt atttgaacaa ggcgcagggt 480  
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tggaaacagc aaaatgtgtc ggccgcgcgg tccaaagcga ccaccgtgga ggcggcctgc 900  
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<210> 76  
<211> 588  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 76

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ccattgattt ggcagctgct gcaatcctct atcataaata agttgattca cattcaatcg 180  
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ctgctgctgc ggtgcgacga tagggtcgac aagaaattcg tatcgagat ccagaagaac 480  
gtttagtgc ttcaagttcc ctggtaaat gctatcaagt atcggccac atctgtcaag 540  
ctgttggaaaa ctacagtgcc aattgtctcg aagaagaggc aaaagtag 588

<210> 77  
<211> 2352  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 77

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gccgctatta gacattatat taaagagtgc ttgcacaaaa atggtataag gctagctggg 600  
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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 78

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caagttgcat atcaaataa gaaaggttcc atcgcaggc caaagttaa gttctggccc 240  
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<210> 79  
<211> 1752  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 79

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<211> 5607  
<212> DNA  
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<400> 80

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<212>	DNA
<213>	Saccharomyces cerevisiae
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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 82

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<212> DNA

<213> Saccharomyces cerevisiae  
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 <211> 411  
 <212> DNA  
 <213> Saccharomyces cerevisiae

<400> 84

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<210> 85  
 <211> 462  
 <212> DNA  
 <213> Saccharomyces cerevisiae

<400> 85

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cgaggcgac gcttcatagt gcctataacct ttttattgca tttccaaggc acaagaatgt 360  
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<210> 86  
<211> 1995  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 86

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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 87

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<211> 1971  
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<213> *Saccharomyces cerevisiae*  
<400> 88

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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 89

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<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
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<212> DNA  
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<400> 100

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<212> DNA  
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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 102

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<212> DNA  
<213> *Saccharomyces cerevisiae*

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<212> DNA  
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<400> 105

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<213> *Saccharomyces cerevisiae*

<400> 106

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<211> 309  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 107

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gagctatcga tttttctgc ataccaagca agtttacctg gcgaaaagaa agtcgacaca 180

gagcggctga agcgtgatct atgcccacgt aaaccattg agataaaagta ctttcacag 240  
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ccaagttga 309

<210> 108  
<211> 3093  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 108

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<211> 1626  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 109

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agtactcctt tcgaaaagtt agaacctgacaa accagaacc atccacagaa agactgctgt 180  
gctaccgaaa aggacgatct ggttgcgtg agcgaattat ttcccaaaca gaacaacaaa 240  
caattgagtc taacatcaaa atcttcagtt gtaccctgtg cttaaattt ggataaccta 300  
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ataagttctc ccccgctaga ggaatcctat atcaataatg accagtacaa agctctttc 480  
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cgacacataa aaaagcatgc gaaaaggaag gcctatcact gtccatTTT tgataatgc 720  
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ttttaa 1626

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<211> 1770  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 110

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ccatTTacg actcgccaca agatgatatg gttacgata ttgccaacta cgaaaaggc 240  
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tgggaggggca gaatttacat atctgaatga 1770

<210> 111  
<211> 2115  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 111

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tctctagata tcaaaaaacac tgtcttagat agtgcggatc tcaatgacat tcaaaatcaa 180  
gaaacttcac tgaatttggg gtttcctcca ctatcttcg actctccact gcccgttaacg 240  
gaaacgatac catccactac cgataacagc ttgcattga aagctgatag caacaaaaat 300  
cgcgatgcaa gaactattga aaatgatagt gaaattaaga gtactaataa tgctagtggc 360

tctggggcaa atcaatacac aactcttact tcacccatc ctagaacga catttgtac 420  
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tacaggagaa aatcaatgac accgtccaga agatcaagtgc tcgtaataga atcaacaaaa 1920  
gaactcgagg agaaaccgtt ccactgtcac atttgccttca agagctttaa ggcgcagcgaa 1980

catttgaaaa ggcatgttag atctgttcac tctaacaac gaccattgc ttgtcacata 2040  
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<211> 375  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
<400> 112

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agaatcaaaa agatcagtag agaaacgcct gtccagataa gtttctgggt gtatggaacc 180  
ttcccttctg gagcaatcac ttccggcagg aaagattcaa atggcttaaa caagtctaga 240  
acacggttgg aggacattt caaagtaaag cgtgaaccag tgtcagttt tctacttgct 300  
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gtgagggttga attga 375

<210> 113  
<211> 1098  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
<400> 113

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agtgggttca gcaattctac gatTTGcag gagacttgcgta actccaagaa tgccgtcaaa 180  
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caattcacca ctctgtggga cagacttaggg gttcttacc gtagaccaga tgactcattg 960  
tttgatccta agttaagaga tgctaaggag acctggacg ctcaagttaa ggaagttgaa 1020  
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accaagaaga acaactga 1098

<210> 114  
<211> 1659  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 114

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gatgatgtgg tcagagtagt cagccatagc gatgagagta ctgatgacga actttgtaat 180  
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<213> *Saccharomyces cerevisiae*

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<213> *Saccharomyces cerevisiae*

<400> 121

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<400> 122

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<400> 123

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<210> 124  
<211> 2586  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 124

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gcagcagtcg gattgattgg tgatata 2460  
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ttataa 2586

<210> 125  
<211> 321  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 125

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ccccagttac cagatccaat cacagtaacc ttgaaaggct tttcggcagc cttcaaagaa 180  
acagaagagg aacttctttt tctaccagca ttcaagtggc cggaagttaa gttaatcta 240  
tcagcagcag cagacatctt tatattatca atatttgtt ttgtggaggg ggggggtgta 300  
caatatacaa ttgtttcttg a 321

<210> 126  
<211> 1482  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 126

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ttagcaatac acctgcaaat ttccaacaaa tctactccca atacattcaa ttctttagat 180  
ttttctacga ggtccaggat aaatggttct ctgagttatt tatactccga tgcacagcaa 240  
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agacaattgc aaccaaacct caatttcagt gtttagtagtg cgaatacgtt gagtagtgac 360  
aacaccacag tcgacaatga caagaaatta ctacatgact cgaaatttgt taaaaaatcc 420  
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ttcccgccaa agtttggcat acaattccag tactccacat ga 1482

<210> 127  
<211> 1017  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 127

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gtgcacccaa ctgaaacctc aacagaggct ccaaccactg ctatccaaac taacggtacc 240  
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gctttccac caactacatc tttgccacca agcaacacta ccaccactcc tccttacaac 480  
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gaacccaacca ctttcaccac aaacggtaag acttacaccg tcactgaacc aaccacattg 600  
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actgttagtca ctgagtacac tacttactgt ccagaaccaa ccacttcac cacaaacgg 720  
aagacttaca ccgtcactga accaaccact ttgactatca ctgactgtcc atgtactatt 780  
gaaaagagcg aagcccctga gtcttctgtc ccagttaccg aatctaaggg cactaccacc 840  
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<210> 128  
<211> 1386  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 128

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<210> 129  
<211> 2280  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 129  
  
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caagagccta gcgttaccaa gaagataactt tactccatcg ccacatggct gttgtacaac 180  
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<210> 130  
<211> 1863  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 130

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taa 1863

<210> 131  
<211> 1089  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 131

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tcggaatact gtatatccag tgacgcagga acagagaaga tggatagcga cgaggagaag 180  
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caagaactgg aagaggcaat tgacagcaag gagaagagca ccgacgcccag ggacgagcaa 420  
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<210> 132  
<211> 984  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 132

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caaatatgccc gccaaagtacg agattggag gaagaaagag atctagagtt agtcaggttg 240  
cgccctgtttg aagagtaccg tgggtctcg tccggatcg aatttcaaga agatattgaa 300  
aaggctaagg ctgaacacga gaaactcatt aaattatgca aagaaagact gtattcgtct 360  
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<210> 133  
<211> 996  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 133

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<210> 134  
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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 134

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atgcctgtgt ggcttggata ccgcgatttacacggaca tgatctacgt tcttggttat 360

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gaagaagaag agtgtttatt gtacagcggt gtttccaaag tggaaatcgt cggaaggttt 1140  
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<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 135

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ggcaaataa acagccacgt gcccacgggt ttctctagcc tcatcagctc cgcatacggt 180  
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<210> 136  
<211> 1548  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 136  
  
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gaagaacttt taaatcaatt gaacggtaact tcagacgatc cagtgccata taccttcagc 240  
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<212> DNA  
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<400> 137

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gacgattctc aaagaaacca ggggttatt gcctgttcag ctggaatca tgccaaaggt 420  
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<213> *Saccharomyces cerevisiae*

<400> 138  
  
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<210> 139  
<211> 2082  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 139

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<210> 140  
<211> 4074  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 140

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<400> 142

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<210> 143  
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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 143

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<211> 582  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 144  
  
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582

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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 145

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<211> 4104  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 146

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<210> 147  
<211> 567  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 147

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attgacatgg aggacccaaac catcatcatg tacattagaa ttttatactg ttcttccatc 120

ggtatctctt ggatcatcta ccaaattggcc agaaagagaa ttgttgctaa aaacgacatg 180  
actaccatga agtacgtcga acctggtaat gctatgtccg gcgaaggtaa gaagctgcaa 240  
gttactaccg tcagagacta cgatttgaag gaaatagaca gtgctatcaa gtctatctac 300  
actggtatgg ctatgatggg tttcatgcat ttgtacttga aatacaccaa cccattgttc 360  
atgcaatcca tttctccagt gaaaagcgct ttggaacaca acgaagtgaa aattcacctc 420  
ttcggttaagc ctgcaaccgg cgatttgaag agaccattca aggctccatc tttgttttgt 480  
ggtatgggtc aaactggtcc aaagaccgac aagaaatcta tcgaagaagc tgaaagagcc 540  
ggtaacgctg gtgttaaggc tgaatga 567

<210> 148  
<211> 435  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 148

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cagtccttca cggaaaaaaaaaaa aaaagagcac tgggtcactt cggaaaaact tttgactcaa 180  
tgcaacagtgc tccataatcct ttgcgtgtc tctttgaaga aaaatcagga gtgcaagata 240  
tcgattaatt ctttgcgtttt tatgtatggtt agtcttagtt taactctttttaat gaagaagggt 300  
tttttcagtt ggtcaacact cttagaggt aaaaaaaaaaaa aaaaaaaaaaaa aaaaaagaga 360  
atttttcatttgc taattttacca tgatttacgg tttttcaag caaaaatgaa gataatccga 420  
gcgcattgcgaa agtag 435

<210> 149  
<211> 351  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 149

atggggaaat attcatcatg tagaatttca aatattttca ttgttaatttc taaaatttaat 60  
gagggaaaatt cgatatatct ggtatcactt tattttcct tcagcacgaa atgtcgagcg 120  
atctcgatgc aggaaccagg tataagtgc gatagtaat tttttctct ctttttaata 180

atccggaaag tctcagttgc gagtgattgc agacagttgt atgaatgtaa aaaaagtaat 240  
gaaaacattt gggagtattt caaacggagg ttagagacga ggcttcgag ctttctatt 300  
atttaagtg ctgtgttcc ggacgtgctc ttcactttct tatTTTCTTG a 351

<210> 150  
<211> 642  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 150

atggactta tttcatacga aaatgaggcg ataaacgagg tgaaaaaggc agataaccat 60  
cacgttagca aatttgtgac tagttactat gggccatcat cgtcgtcatg gcagtcagga 120  
atatggattt tgTTTGTGCT gTTTGTGCC gcAGTAATCC ttATAATACT gttcactttt 180  
gtAGCgAACa gaaggagacg aaggatgggg cgtgctccc ttAGAGGTAC ggcATGGTTG 240  
acaccgcctt catacagaca gtctcagcaa caatatactg ggaccgttca gcaacggaca 300  
gatgattatg ttccTgAGTA tacAGAAACA gcGAACGAAC atgatcttgg atactatgac 360  
cagccccccg agtttCACCC caacgataag gctgcatacg tggccccccc gccATTGGTA 420  
caagaatgtt catcagaatc tgTTAATTCT ttAGAAAGAC ctcccgtgc tgtAGTTcAc 480  
caagctaact cttagatac ggattacggt ttaacaaggc ctagcaatgg ggcgcTTCCA 540  
gtGTAGTg atacggTgGA gcaattggaa aggctccgg gcgggactac aacgcaggaa 600  
atTAACCAC CGGAGAGGGC aaaggtaaat gcaaggTCat ga 642

<210> 151  
<211> 3042  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 151

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ctagctggtt atgggccttt catccatgtc tatgactatac attcggctac gttgattaac 120  
aaatgttaggc tatttcacta caataaagt catggactta gcctttctag tgaaggAAA 180  
atTTTGGCCT atggTgCAAG atcAGTAACA atAGTgGAAC ttGAAGACGT ttAAAGAAA 240  
gagTCATTGg tggatttcga aaggattaac tcagattgga ttaccggTgc tacattcAGC 300

tttgacaact tgcaaataata ttgttaaca tggataata aagtgctaat ttgtgattta 360  
aattgtgaag ttcttttag gaagtctctt gggggagaaa gatctattct atattccggt 420  
ataattaaag tttcgtcc ggataaagta tatgttaacg ctggtaactgt aatggcggt 480  
gttatcattt gggacctgtt ctcggagaca aaaattcata acttactggg tcatgaaggt 540  
tctatcttt atgttaattt aagcaacaac ggaagatag ttgccagttt ctctgacgac 600  
agatcaatta gactgtgggaa tttagaaact ggcaaggcgc tgtctgttgg ctggagccat 660  
acggcaagaa tatggaattt aatgtttttt gataatgatt caaaactaat aagtgtttct 720  
gaagattgca catgccgtgt atggaacatt atcgaatcac gagaaaaacgt tgccgaatta 780  
tccatatcta acgtttacga agtacattt atcaagagta tatggggcgt tgatgtgaaa 840  
gacgacgaaa tgatagctgt aacctccggg aatgatggta gttaaagct gattgatctt 900  
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tatgaacttag ctatgtgaagt ttgtgggtgtt ccctatcgatc tggaaatct cgcaaaaatt 1860  
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aactccattg tgcctgaaac tttagaaaat ggtgtacacg gaagggaaat cagagatatt 1980  
tcaatctgtc ctgtttcaaa taccaacacg aatgacaatt ttaaggatgg gcatastattc 2040  
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gtgcagaatt tttggacaca aagaaagcat gtgtctggat tacaacgttg tcagttata 2160  
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gataagtata ataaacgacc atatatgacc atacgacaag cttaacctgt atccacaaat 2280  
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atttgacag ggggtgatga taatggtttta gggtaagca acctgaaattt agatgactcg 2760  
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tccggatgt tgattaatgg tggcaaagaa gtcattacca catcggttga tcaagtaata 2880  
cgcgcttggg aaattaccgc aggcaagctt tcactggtag ataaaaagcg taccactgtg 2940  
gcggatacag gatcatttgc aatcatttcc aatgatgaag atgctgattt tgagaaaaacg 3000  
ttactgatcg gaggtgttgg tttatcaattt tggaaaaat ga 3042

<210> 152  
<211> 933  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 152

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gactacgctt ccacacctgg tattggcggtt caaccaatctt ccactacatc cagcgcatca 180  
tctgcagcca ccacagcctc atctaaaggcc aagagagctg cttcccaaattt tgggtatgg 240

caagtccaag ctgctaccac tactgcttct gtctctacca agagtaccgc tgccgccgtt 300  
tctcagatcg gtgatggtca aatccaagct actactaaga ctaccgctgc tgctgtctct 360  
cgtgatggtc aaattcaagc taccaccaag actacacctg ctaagactac cgccgctgcc 420  
gtttctcaaa tcagtgatgg tcaaataccaa gctaccacca ctacttagc cccaaagagc 480  
accgctgctg ccgttctca aatcggtat ggtcaaggta aagctactac taagactacc 540  
gctgctgctg tctctcaaat tggtgatggt caagttcaag ctaccacca gactactgct 600  
gccgccgttt ctcaaatacg tggatggtcaa gttcaagcta ctaccaagac taccgctgct 660  
gctgtctctc aaatcggtga tggtcaagtt caagcaacta cccaaaccac tgccgcagct 720  
gtttcccaaa ttactgacgg tcaagttcaa gccactacaa aaaccactca agcagccagc 780  
caagtaagcg atggccaagt ccaagctact actgcttggc tattggtgac aatgatgtct 840  
tctaccaatg tttgtccggt actttctaca acttgtacga cgaacacatt ggttagtcaat 900  
gtactccagt ccacttggaa gctatcgatt tga 933

<210> 153  
<211> 345  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 153

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gtgctgttgc aactgttgct gctccggttg tcttttcatg tgagcagaac taaaatcttgc 120  
gtcttggtca gaatctcgat tattttcac catgacgaga atgcgtatac gcagagccaa 180  
tataatctgt atacgggacc tttgacatta aggtttctgc agagagtttta ttacatgcat 240  
tttcatatat atattttaa cggcattcct ttacggtatg taaaagaaaaa tgatccatg 300  
agcggccctt cgtacgagat gagatataat aagaatgaaa gatag 345

<210> 154  
<211> 375  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 154

atgttagtac gagacatagc cggcgaggt tatttcgctc aatctgtttt tttcagtttt 60

tccgcgttct ctcttttcg ctctttctg gctaccgcgc cgccttata tataaaatct 120  
cttccgaata acaaagtggc cgaaacaaggc gccaacgtcg accatttgc caccgtgtca 180  
ctgtgcacga gcaacgaaaa actggcgttg gttgcgcctc acgaattgct tgagcctt 240  
cccaatatca tcgcgcattt atttgagtca ttctctgccc ctttatttattt aaaagtctgt 300  
gtgctatcaa aatgctttg ctccgttca ccctctatgc gtaaacactt gcgcgttct 360  
cccttctct ttttag 375

<210> 155  
<211> 1644  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 155

atgactaaat cggttggta tgaagagtca cagtacattt aggaccctag ttttgagca 60  
gcagctgcat ttactggcg cagggacggg gtttgcgtaca gtaatcagcg atttgcgtag 120  
ggttccggcc attcttctga cttagcaaag tcattagaag actatcgcc tcctgatgaa 180  
aagccgtcct cattgtcatc tgtggggaa ggtggcgcta atgaggaaga gaagggcggt 240  
aacgacggcg gtcccttggc aagaattcaa acagggttt tttctccaag actgcgaaat 300  
cataggaaaa agattctctc gaagtttgtt ttgaacaact tcttcattgc ttgtgtgt 360  
gtatcgctca tatcgattta ctggggtgcc tggtacggaa cagatcgta cttttcaaa 420  
gtgaaaaata ttgttgttatt gcaggatgctg ccatctaata cttcagttca atctatttcc 480  
gcgatcatac cctcattgtt agcgtctgtc cccggacat ggcataata caacgcaaca 540  
tcatttcata gaaaatttg tacgacgaac tccaccgaaa ttgacagaaa gatagtcgt 600  
ttaatttacg atgagagata ctggctggcg ttaaacgtta aacctaattgc tacagacact 660  
ttgtataatt ctttgatttgc ccaagacgca aactcggttgc tcaatttcattc aatttttttt 720  
aatccgtgt ttgaaagtgg tcgtgaccca tcgagtttgc aatcgaccat tctaccactc 780  
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gcaggacagt ttgttgttgc acataacgtat tatcgccct ttgtgtatcg tattctaatg 960  
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aggcttctaa ttccctggc aacttatttt cttcttcca ttggattctg taccgtatct 1140  
gcaattttta ggatcgattt caccccccgc tttggcagag gaggattcgt agtatattgg 1200  
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ccatttgtta tgaagttgc agttaaaaaa atgcaaaaaa atgctatgca agcagcagaa 1560  
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aataacaacc cgccccggaaa tttaa 1644

<210> 156  
<211> 1761  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 156

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gttagattca ccggtaagg tgccaaatac acaactgcta cggaggccaa tggtggtgca 180  
gatTTAGCgA ttcaaagaac gacgactatg aattctgctg cagaatcaga ggttaatATC 240  
acgagaagat taactaaaat ccttactggg tctgttaacg agcctgaccg tgttagagtt 300  
gattatacca attgtgcGCC catgggtgg gacagacTTT accctccatc gttgccgAGC 360  
agagacCTGT acgaggTTAC ttttGATGGT CCTAACGACC CACTACATCC ATTAACTGG 420  
CCCATGAAGA agaaAGTGCT GCTATGTCTG GTCTTATGTC TGGATTCTAT TGCCATTGCT 480  
atgtgttctt CCATTTGTC CTCTGCAGTG CGCAATCT GCGAGATATA CCACGTCATC 540  
gaagttgtcg CCATTTGGG tatcacgctt tttgttctg ggTTGCGGC CTCACCGTT 600  
atctatgCTC CTCTTCTGA attgtacggT agaaaggGTG ttctggTTT atctgcgttt 660  
ggatttgcCC tttccaatt tgctgtcgct actgctgaga acctgcaaAC tatttcata 720

tgttagattct ttgggtggttt tatcgaaaaa gcacccatgg ccgtcgcccc cggccgcgttt 780  
gccgacatgt ttgataactaa tggtagaggt aaagccattg cgctatttc tctagggttt 840  
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tataatgttcc gtggcatggg tatcggttgg gctgggttgtt tattaggtct atttgcgc 1680  
gcgtatgattc ccgtgcctt actattctta aaatatggtg aatctatcag aaagaaatcc 1740  
aagtatgctt acgcccgtta a 1761

<210> 157  
<211> 810  
<212> DNA  
<213> *Saccharomyces cerevisiae*

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ctatggagaa gagatgaaca cgttactgtt ctctgtatg catgtggcct cttcctgaag 180  
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aaaaagctga ataacaacaa tgtgaacact aatgccaata cccattctaa cgacccaaat 300

aaaatattca agagaaaagaa gagactgctt acaactggtg gtggttcatt acctacgaat 360  
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ccttttcag attccgctgt accagaaata gaactaactt ggaagctaca taatgaggag 660  
gaggtaatca aattgaagac caagataagc gaattggagt tggtagacaga cctataaaaa 720  
aagcacatat tccaaactgaa cgaaaaatgc aagcaactgg aagtggaaact acactccaga 780  
gcttcagtagtac aatctcaccc acaacattaa 810

<210> 158  
<211> 2970  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 158  
  
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agactcactg cggtagattt ggtgcactcc cagacaggag ccgagcattt gcatttttat 180  
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gggtccctc atattctaga gcataacaacg ttgtgtgggt ctgttaataa tccagttagg 300  
gaccctttt tcaaaatgct aaataaaatct ctagctaatt tcatgaacgc tatgacaggt 360  
ccagattata catttttcc ctttccact acgaaccctc aagatttcgc taatttaaga 420  
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<211> 1464  
<212> DNA  
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<400> 165

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<212> DNA  
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<400> 166

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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 167

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<212>      DNA
<213>      Saccharomyces cerevisiae

<400>      168

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<212>      DNA
<213>      Saccharomyces cerevisiae

<400>      169

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<213>	Saccharomyces cerevisiae	
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<210> 172  
<211> 1947  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 172

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<210> 173  
<211> 1461  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 173

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<211> 1074  
<212> DNA  
<213> *Saccharomyces cerevisiae*

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<211> 3306  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
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<213> *Saccharomyces cerevisiae*

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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 177

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ctcgacaaat gcagcattat attcacctca gatccgtatc tatctat 360  
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<210> 178  
<211> 2304  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 178

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gatttgagaa ctcaaaactg gaagttgcaa aaggaggctg gtgttgatcatcc 180  
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<210> 179  
<211> 816  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 179

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acggaagtgc ggtcattcta cgaagacgaa aagtctggcc taatcaaagt ggtaaaattc 180  
agaactggtg caatggatag gaaaaggctt tttgaaaaaa ttgtcgttc cgtcatggc 240  
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caagtgcata ctttgcattt caatagaaag gattacgata ccctttctct ttttacctc 420  
aacagaggat actataatga gttgagttc cgtgtcctgg aacgttgtca cgaaatagcg 480  
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<210> 180  
<211> 1965  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 180

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tttcaaagac taacaagccg ttcaggctct gctaacaggg ctgta 1965

<210> 181  
<211> 669  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 181  
  
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<210> 182  
<211> 1563  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 182

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taa 1563

<210> 183  
<211> 1770  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 183  
  
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gccattaaaa agttcaagac agagaaggat ggcgtcgaac aattgcatta tacggaaata 600  
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gggcttggTG ttaaccgtAG aattctggCC gcggcAGcAG cagccgCTGC tgcggTGTCA 1620  
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<210> 191  
<211> 597  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 191

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caccaatCAA gACCCACCA aaggCCCTCG acaatGCCAG caacGTCCTC atCCCAAACA 180  
tatgctcaCT cacactCTTA tacGcCTaca agttcccAAC cacGGCCTCC accGAGGCCA 240  
caacAGAAACt ctagctTGCC ctggacatac CCTCCAGGT ttTactGTTC caAGTGTGGA 300  
aatacGGGTT acaAGTGAa gaatGGACGA tcttGcaAGt cgtGttGGAG gagGtttGCA 360  
cctcaAAATA acgttGTTc tgCACCGACA tattACACAA actatacAAat gcccGtGtAC 420  
accaACGcat ggcaggGtaa tagGCCCTTG tacGttCAAC cAGGGGatCC tcGcCTGGGT 480  
ggcgtGctat gtggGTaaatG cagAGGGTCC ggacGcACCA gattCCTGTT ggacGAAGAT 540  
atatGtcCTC tttGtCATGG tGtagGCAGA attatCACCC agcctcaACG ctattAG 597

<210> 192  
<211> 981  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 192

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cgaggatct ttagcttat acggcagggtt taccatgagg agggAACCAA aggtttattc 240  
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<210> 193

<211> 3303

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 193

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aatcatctta atgaggtgga aaatgaagat agcaaagtt tagatgacga tgcagtgtt 180  
taccctctta tacctaattga gccagatgac atagaaacgt ctaagccaa tattaacgat 240  
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taa 3303

<210> 194  
<211> 3108  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 194

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gaattgtggc aaagaaacaa taaagaacca gaactcaata aaaagttatt tgatgacgtt 360  
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gatgaaAGTG aggactatac tggcgacgag agtgaggaag gtgaagactg ggatgaatta 3060  
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<211> 2853  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
<400> 195

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<210> 196  
<211> 3276  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 196

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<211> 2922  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 197

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2922

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<211> 324  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 198

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caacagcagc cccaatatta ccaacaacac ccacagcagc ccatttatgt ccaacaacaa 240  
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tgtactttgg atatgctgtt ttag 324

<210> 199  
<211> 987  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 199

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<211> 2178  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 200

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<210> 201  
<211> 1533  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 201

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<210> 202  
<211> 1587  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 202

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<211> 2787  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
<400> 203

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<212> DNA  
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<212> DNA  
<213> *Saccharomyces cerevisiae*

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<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 207

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<213> *Saccharomyces cerevisiae*  
  
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cgtaaccagt ga 1092

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<211> 1800  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 209

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<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
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<210> 211  
<211> 369  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
<400> 211

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ccccaccata gtgatgtaac atgc当地taac gcacggc当地gg cc当地aaagtcg gactttaccc 180  
cagatttgcgat gttgtatcct attggatca gggcgacgga caagacccga agtgccggacc 240  
ggcatggtca gcttgacgg aagctttaac ggtttccctt gttcggcat tagaagagggc 300

attcgcacg ttttaccggg tcagaaaactt cgaggaagct gtgacaattt gaaaaaaagg 360  
caaaaactaa 369

<210> 212  
<211> 2610  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 212

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agaagaagca taaggctcgat ttttagaaga gcagccgaat tgcctagagt ccatatgggg 240  
cctcttactt attcacatgg gataaatgag cttgttaaca agaaattaag aaaagactgt 300  
gatctcagca cgctatgtcg cgtattgcaa agaggaatca ggatgattag gatgacaaga 360  
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ttaaagaata ggaaagaggt aaatatgatt tggtctaaat ttacaaaacc tccacactcc 960  
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ccaaatatggg atgctgaagt ttctatcaca ttgaaagata cagacctcac atttataaaa 2460  
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<210> 213  
<211> 1815  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
<400> 213

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aataacaaca acggcgcta caacggtggc cgtggcggtg gcagcttctt tagcaacaac 180  
cgtcgtggtg gttacggcaa cggtggttc ttccggtgaa acaacggtgg cagcagatct 240  
aacggccgtt ctgggtggtag atggatcgat ggcaaacatg tcccagctcc aagaaacgaa 300  
aaggccgaga tcgccatatt tgggtcccc gaggatccaa atttccaatc ttctggtatt 360  
aacttcgata actacgatga tattccagtg gacgcctctg gtaaggatgt tcctgaacca 420  
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cgtttcacca agccaacacc tgtgcaaaaa tactccgtcc ctatcggtgc caacggcaga 540  
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ttgtccgaat catttaagac tggaccatct cctcaaccag agtctcaagg ctcctttac 660  
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tcttcgggt ggtga 1815

<210> 214  
<211> 1203  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 214

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aggccactc accccggaaa tattccaaat aaggagtggg ctgctgtgtt ttatggtcag 180  
cgtgctcaa gacctggta catgatcatc acggaaggta cgtttatttc ccctaagcc 240  
ggcgctatg acaacgcccc tgggatttgg tctgatgagc aggtcgctga gtggaagaat 300  
atcttttag ccatccatga ttgtcagtcg ttcgcgtgg tacaactttg gtctttaggc 360  
tggcatacct tcccagacgt attggcaaga gacgggttac gctatgactg tgcatactgac 420  
agagtgtata tgaatgtac gttacaagaa aaggccaaag atgcgaataa tctcgaacat 480  
agtttgacta aagacgacat taaacagtat atcaaggatt acatccatgc ggctaagaat 540  
tctatcgccg ctggcgccga tgggttagaa attcatagcg ccaatggta cttgttgaat 600  
cagttttgg atccacattc taataagagg accgacgaat acggcggAAC gatcgaaaac 660  
aggccccct ttacactgga ggttgcgtat gcttttatcg aaactatcg tcctgaacgg 720  
gtgggttga ggttgcgtcc gtacggcact tttaacagta tgtctgggg tgctgaacca 780  
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cccagaacct tggtaggttca ttcatctcta acccagattt agtctaccgt 1080  
ttagaagagg gcctgccatt gaacaagtat gacagaagta ccttctacac catgtcccg 1140

gaaggttata ccgactaccc aacatatgaa gaggcagtag atttaggtt gaacaagaac 1200  
tga 1203

<210> 215  
<211> 354  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 215

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tatgtatacg aacagtatga tactgaagat gacaaggtaa tgcatttc tatacgtgtc 180  
attctgaacg aggccgcgtt tcctttttc ttttgctt ttcttttt ttctcttcaa 240  
ctcgagaaaa aaaatataaa agagatggag gaacggaaa aagtttagtt tggtgatagg 300  
tggcaagtgg tattccgtaa gaacaacaag aaaagcattt catattatgg ctga 354

<210> 216  
<211> 1575  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 216

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agagatgaga aaggtgattt caatgaagaa aaggattctt ccaaagattt ggggagggtt 180  
ccgtcgaaga tgaaacgagc atatgatggt gaaacagtta ttaaagaggg agattcgat 240  
gtcgagtcgc tagcgcagca gggaaagcag cccacagacc tcgcataaa cagcagatcg 300  
aagatatctg gttctaattt gcatttattt gttcttagag ttgcgtctac agactatattt 360  
tgcgataaaag aggttcacac ggagggctg tttgccggct atcgaccctt gttctgggg 420  
aactcagggtt ttccgtctga tgcaagaaag ggtaaaaact ttcatgagtt agacgacgtt 480  
cttcccaata tacaggttgtt ggacgcttcc gagaaagatg gcaaaactcaa tgcaggag 540  
attattgagg acttacaaag aacaagttt agagaaagca ttcatagttt ggaacagtta 600  
ccatcttcgc acaaacgtaa acccgtaata ccgtggacg catctataag tggcatggtt 660

tataatgaca tgccttcaa atatgtgccc aaaaatatta ttctgaaaat gaagccatt 720  
aaactttgc gtattgagag aaaaagtcaa gcgaagaatg caagaaagcc tactatgata 780  
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gactactatg agtga 1575

<210> 217  
<211> 1557  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 217

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attttgtga ttaaaacatc ttccatcggt ccaccttcta ttgcacgtac agttactcct 120  
aatgctagta ttcccaaacc tccggaggac atctctatct tgcccgtaa tgatgaacca 180  
ggttaccttc aagattcgaa gactgaacaa aactatcctg agcttgccga tgctgtgaag 240  
tcacaaacaa gtcaaacatg cagcgaagaa cataagtatg ttatcatgat cgatgccggc 300  
tctaccggtt cccgagtaca tatatacaag tttgacgtct gtacttcccc acctacatta 360  
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ggtgccgcta actcccttga cccattactg aaagtagcaa tgaactatgt ccctattaag 480  
gcaagaagtt gtactcccgt tgcggtgaaa gctactgcag gcctaagact cttgggtgat 540  
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ccagttgtcg aaggtgatgg tggccatc atggcggtg atgaagaagg tgtcttcgc 660  
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caaagagaat tgagaactgg aaagaaaatt gccaataaag aaatcggtt gtgttaggt 1500  
gcgtcattac cattgtgaa agctgataac tggaaatgta aaattcaatc agcttga 1557

<210> 218  
<211> 552  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 218

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ctggctggag cagcaactct gtttagagaca ataacgttct tgattcagt caatggttcg 180  
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aagtccgata agaaacctct gatggctctt ctaaccatgg tgttcttacc catcaagacg 300  
acagctctgc ctctcaattc ctttctgact tcgtgcattt gttggaaaga aacattgtca 360  
acaccaacaa cgaacaaaga ctgttattct tccaaggattt ctcttaattt agcaaagtat 420  
tcagctttct tttcacgaat gcctcccatt tcaaacttat tatacgattt tattagactg 480  
tttgcaggat gtttaaaggt attccgctta tgtatcttggctgaaact tgaaaaaaga 540  
atcgagaatt ag 552

<210> 219  
<211> 663  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 219

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tcaagaatta gtcaaataaga cagcttcaaa ctgtcggaaat tcatggttct aaagacagat 120  
attgagacac aactagaggc gtatttcagt gtgcttgagc agcaaggcat cggcatggac 180  
tctgcgttgg tgacgccaga cgggtatcct cggtcgatg tcgatgtatt gcaagtcact 240  
atgatcagaa agaatgttaa tatgctgaag aatgatttaa atcacctttt gcaaagatca 300  
cacgtcttac taaaccagca ctgtgataat atgaacgtta agtcaaaccac agatgcaaga 360  
aggaataacg acgatcaacg tattcagttt accatccctt ttgcattttt cagtggat 420  
gtacccggta gcccttcaga taaagcagac ataaagggtt atgataagct gatttctatt 480  
ggtatgtgc atgcggcaaa ccactctaaa cttcaaaaca ttcaatgggt tgtaatgaaa 540  
aatgaagaca ggccacttcc cgtccttctc ttgagagaag ggcaaatccaaagacatcg 600  
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taa 663

<210> 220  
<211> 2295  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 220

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atccaaattgc gtgggtgtcaa tttggatccg tcagttaaaa tccctgcaaa gccattccta 120  
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<213> *Saccharomyces cerevisiae*

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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 222

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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 223

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<212> DNA  
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<212> DNA  
<213> *Saccharomyces cerevisiae*

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<211> 4146  
<212> DNA

<213> Saccharomyces cerevisiae

<400> 229

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<212> DNA  
<213> *Saccharomyces cerevisiae*

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<211> 1659  
<212> DNA

<213> Saccharomyces cerevisiae

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<213> *Saccharomyces cerevisiae*

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<211> 1137  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
<400> 236

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<211> 1047  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 237

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<211> 1692  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
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<211> 462  
<212> DNA  
<213> *Saccharomyces cerevisiae*

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gcaccaggta ccattagagg tgatttcggt attgacctag gcagaaacgt ctgtcacggc 360  
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<210> 240  
<211> 858  
<212> DNA

<213> Saccharomyces cerevisiae

<400> 240

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<210> 241

<211> 4263

<212> DNA

<213> Saccharomyces cerevisiae

<400> 241

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tcaaggatt tatggtgttt cagtataaat gatgatccgg taccgacacc tcctgcgata 240  
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<211> 2073  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 242

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<213> *Saccharomyces cerevisiae*

<400> 243

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<210> 244

<211> 243

<212> DNA

<213> Saccharomyces cerevisiae  
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agttataggg gtgccgaggt gcctataaaa accctttcc gtcctgtga tactccatt 180
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taa 243
  
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<210> 245  
 <211> 483  
 <212> DNA  
 <213> Saccharomyces cerevisiae  
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 <213> Saccharomyces cerevisiae  
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<211> 1956  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 248

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<213> *Saccharomyces cerevisiae*  
  
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<211> 2709  
<212> DNA  
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<213> *Saccharomyces cerevisiae*  
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<211> 363  
<212> DNA  
<213> *Saccharomyces cerevisiae*

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aattggacaa ggtgccacct tttcgacact tcggttatta tgttacacag ttttcatgag 240  
gatggcgccct tgactaactt aattagtcat ttgccaacca ccacagttcc ccaatatcga 300  
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<212> DNA  
<213> *Saccharomyces cerevisiae*

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aagaaaaagtg attttgcgttccatctt gactacggc caggttact aataccaaac 180  
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<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 256

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<211> 3369  
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<213> *Saccharomyces cerevisiae*  
<400> 257

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<210> 258  
<211> 1689  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 258

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<210> 259  
<211> 3234  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 259

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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 260

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<213> Saccharomyces cerevisiae  
  
<400> 261

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<212> DNA  
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<400> 265

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<400> 268

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<213> *Saccharomyces cerevisiae*

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<400> 272

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<211> 2052  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 278

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<211> 1752  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 279

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<210> 280  
<211> 3396  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
<400> 280

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cgccagcgta ccccaccaggc aactgcagaa tacaatgcg tttaataac gaatagtcaa 360  
cagctaccgt cggaacatca atacaataac gtaccttcat atccacttcc ttgcataat 420

gtgattcaaa ccactccaga actcatacat aacggctcac agactatggc caccggccatc 480  
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<210> 281  
<211> 1674  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
<400> 281

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<210> 282  
<211> 1185  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 282

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<210> 283  
<211> 987  
<212> DNA

<213> Saccharomyces cerevisiae  
<400> 283

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<210> 284  
<211> 1368  
<212> DNA  
<213> Saccharomyces cerevisiae  
<400> 284

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<210> 285  
<211> 1929  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 285

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<210> 292  
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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 292

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<213> *Saccharomyces cerevisiae*  
<400> 293

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<211> 1332  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 294

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<210> 295  
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<212> DNA  
<213> *Saccharomyces cerevisiae*

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<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 296

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<211> 3342  
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<400> 297

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3135

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tcaagtaagt ga

3252

<210> 304  
<211> 591  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 304

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<210> 305  
<211> 771  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 305

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gctgacccct tcaagagaga ccgcaaggca aactgcccatt cgagctcggtt aggaaaagtca 720  
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<210> 306  
<211> 390  
<212> DNA

-100-

306

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cagtccttcctt tctacaacgt tgatgttgac tatgggagaa gtcgtaatag acctttgtt 300  
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<210> 307  
<211> 2067  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 307

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gaactctgtt atagcgaatc atccgataat ccctctagct cattgtttgt ctctaatttg 180  
gataccaaagg aaactttttt gaatgaagac aataatttgc agatttcttc cggactagac 240  
tattcttctg aaacgtgcaa tcaaggcagt aattacagcc agatggat attttatatt 300  
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gcagttaaag aggaaacagt gtttgcattc acaggtaat ctccaaatat ggcaacagca 1980  
tatgtttgtt ttataaagcg atgtattcaa acgctgttga aaagaatgtat cgtgaaaata 2040

tggcaaaaga acaagatgat aatata

2067

<210> 308  
<211> 2196  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 308

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aacgacccac catccacttt cacgcagtgg cttcttcaag atcccaaatt tcctcaacct 180  
catccagaaa gaaataagca ttcaccagat tttttagcct tcgatgcgtg tcataatgg 240  
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ggtaggtgg gtctacattc tggtgacaaa tccaccgtgt ttggtagt attgaactat 480  
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gcactaaact tgtataaatg ggaagggtgtg aaccctgccc ctcctgaaac ttggttactt 660  
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ccggtcagtt acctgtcatt ggtcaaattt tcttgcccaa tgactcctct tcttgaagaa 780  
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<210> 309  
<211> 1587  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 309

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ccattccgcg agcatagtg agaatcaaag cctctcgatg gtggatactc tgccaaagac 480

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<211> 435  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 310

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aaaaaaaaactgg aaatcacatc cgacggagcg ctttcggtaa tgggtgggtg cggtaccgtt 360  
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ctactaaatt cttag 435

<210> 311  
<211> 3270  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 311

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<210> 312  
<211> 351  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 312  
  
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<211> 1746

<212> DNA

<213> *Saccharomyces cerevisiae*

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gaaaaccaga tggtaacca agttggaaat ataaactaca cgcacgattt ttcactctcc 2220  
cacgaaattt acgatcttat cagagaactg tttgggtgg gcacacctca aaaactctga 2280

<210> 323  
<211> 1023  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 323

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cgtaatccag atgaacaaag tggcttgtt aatccacctt tgtataaggg gtcaaccatc 120  
attcttaaaa aacttagtga tttagaacaa aggaaaggaa gattttacgg gacagcaggt 180  
tctccaacta ttgacaattt agaaaatgcc tggacgcatt taaccggcgg tgctggaca 240  
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ggtgatcata tcttgatgac tggatgttc tacgtgccaa cacgtatgtc atgtgatgg 360  
ttattggcca agttcggtgt tggaaacggat tattatgacc catcaatagg gaaggatata 420  
gaaaaactag ttaagccaaa tacaaccgtc atttcctcg aaagcccggg ttctggacc 480  
atgaaagtac aggatattcc agcttggtc tctgttgc aaaaagcatgg gataaaagaca 540  
attctagaca acacatggc aacgccactc tttttgtatc ctcatgcgc tggatcgat 600  
atttcggtag aagctggac aaaaatatttgg tggatgtcatt cagatcttct tattggctg 660  
gcctccgcaa atgaagaatg ttggccgcta ttacggtcaa cttatgtgc aatggcaatg 720  
ttaccaggtg ccgaggactg tcaatttagca ttgcgaggaa tgcgtacatt gcacttaaga 780  
ttgaaagagg tagaaagaaa agccctggat ttggctgctt ggctcgaaa tcgagatgag 840  
gttggaaaag tgcttcaccc cgccttgaa gattgtccc gacatgaata ctgggttcgt 900  
gactacaaag gttcttcagg ctatattcc attgtcctta aaaaatgggtt cacaagagct 960

ggctggaga aaatggtaga agggatgaaa gtttgcaat tgggatttc atgggtggc 1020

tag 1023

<210> 324  
<211> 336  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 324

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aatctacggg aaagaagaaa tttttaaac ttaatgcaaa ataagttt ttcttggaaa 120  
ataagattt cggcaataaa agttaaatgc agccaaaaat caaaatactt cagaagaagt 180  
cgtagcgagg actgctacgt ggaagcggat ttgaagatcc tttccagaac aagaaggagc 240  
cggaaagctgc caggaactgt tcctgattt ttaggaaaac aattaatagg tatctcgct 300  
agcttagtat ctgcgagttc cagaagttgc agataa 336

<210> 325  
<211> 2589  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 325

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ctctcagaaa atgttgaatt ctcaactttt ttaaggatta ttcagaaaac tggcacgtt 180  
cagtactaa atgagctaca gaacttaca cttttgctc cgattaattc agcattttt 240  
aagggggacc aaaccacaga ccaattttag gaggcattcc atattgaaga tttccttatt 300  
catgataggg tattgcaagt gagagacctt gaaaacggta cctacctgga gaaaagagct 360  
gcaaaagcac ctttattgct gagaaagcat gagcgccatt gctttgtcaa tgaaattgct 420  
gttgcgaac ccgatttgct gcctagttc cagaatgctt cattacaagg tattaaacaat 480  
cttttactaa ttcaacctca aataaatgag ttgctggta aactagatga agaaacccaa 540  
gatttaaaga tatttagtga ttttatcagc agttttcaa actataatgc atataacaac 600  
tcatccacag ttttagtgcc cttagatgtt aattttcgaa aattcttcaa tacaatcgaa 660

ataaaactac tacttgacaa atataataaa ttgggtaaat ctaataacaat ttctcaggcc 720  
aaatgggccg cagatagaac ttcccttctt caagaactca ttattgatga cgtgtatgg 780  
ggtattttac ccaaggaact aattttagaa aataaaaaca atcgaaaact ttttatgaag 840  
agtaattcag aaggtacatc agtaagtgt aataattcag attactcacc catatcaaac 900  
agaattttg aaataggcgt cgtgcattga ttttctgact tagactttt acgaacgcac 960  
atacagtttgc atgctgaaaa gtacttgcac gtttgaact gctcagaatt cgtaaaggag 1020  
ttatacttca gagaccttga aaaattcatt caaaacggaa ggaaaatcac catatttgc 1080  
ccacaaggcct cttaaatga ggatcggttt tacacaaaac catcacttct gtaccatttt 1140  
gtagaaggta aaattgacct tgaacaggac ttttcctcat tgcccccgt tcaatacgca 1200  
cctacccaaa ttatgactc cgcctttgc ttttcagcta aaagactagg tggacactgc 1260  
caaaagttca aaatcacaag gtctaataaa gtttattaca tcaatggtcg cttcaagatt 1320  
ttaaacacaa aaccttatga gattggtaat acgtccattt attctattga cgatgatctt 1380  
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aataacgaag agtactcgct tttagttcca acggcttctt ctattccatt aagtggcatc 1980  
acggcgaact cgacaaaactt aagaaaattt ctcgaactcc atttgattcc tgctaatttgc 2040  
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tgcagaaaaag atcatcttgc caacgtttt gtttagcatac agggcgactg gaccaaggaa 2160  
gttagagttc ttAAAACAGG atgcactact aatttggaaaa gttcatgtc atttctgtatc 2220  
gacaaaccca tatttttttttccatc ttggctaaac agcgagaaat accatctgcg cttggccagg 2280

atagcggttg gatttgggt tataataggt gttaccatag ccatttcttt attgtttgc 2340  
ataataatta ccaggggtgg aaaagtaaaa gacaaaaatc aaagagggag aatgatcga 2400  
gcaacaacac cactgattca acactctccg ataatccaca acccttctta ctcggcaaca 2460  
gcgcatat caccacttc tcaacccact tttgaagggt catattctgt gaacgctata 2520  
caaacccca gagatatacg aagggtgggaa tcagatcaaa agggcggtcg cagtgtcagt 2580  
acctcataa 2589

<210> 326  
<211> 2250  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 326

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ctaggcgatg gatccaacac tgaatatgtg gttgatattt tcattgaagc cgctaaggat 180  
ggggatttaa aagtggtgaa ggacgtggc gaaagtggag cagtggatata taataacgac 240  
cgcatgtatg aattatccgg cttacactgg gcctgtataa acaataggtt ttctgttagca 300  
aagttcctat tacttagggg agcaaattcct aaccaggcgg caggccccgg aggggctact 360  
gctttgcact gggccgcaag gtacggtaat atctacattt ttgacctgct tctcaaacat 420  
ggcgctgatc cgacgctaa agatgagcag ggtcttaaca tcatgcattt tagcgttac 480  
agtctaaaca ttttacttgt tgtttatgtt ctttattttg tctaaacaa caatgacaac 540  
gtcgatatcg attcaaaaaga taacaataac agaacacccc tactttggc tgcttatcaa 600  
ggagattttc tcactgtaga acttttattt aaatttggct ccacagttgc atggacggac 660  
aacagagggt tcaatgctct ccattgtgct ctagttggag gtgatcaaag ggtcatatgt 720  
gacttaatac ttagcggtgc aaatttctac gaaaggaata accagaagca agactgttt 780  
gatctagccg aaggaatggg aaccaaatac cttttgaac aagcggtgca acatcatgga 840  
tatgacaggg ttggaaatca gaaagacaaa ctgttcaaga aaagctcgca tgcacaattc 900  
acaatttttt tgcaccatttttactcatg gtttacatatacacttaatttc tctcggttctt 960  
tctccagtgc tagccattat gctttcccta ctggtcactg ttgtcatggt caacacatta 1020

aagaagtttgcattaccatgcctccagaaaaaacacttacaaagtttttgactaga 1080  
actcccttttcagtgccctttctgtccactttctgttttaatataatatggacg 1140  
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acttcctttc tcacagttgtactattctgagattagtagcggcagatcc tggttgtctg 1260  
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aagttgata gggaaaactt ttgtgttgag acattagaaa ggaagcctt gaggagtaaa 1380  
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aatgatgttg gcttaaaaaa tcacaaactt tttgtcttcttgcgtgtgac ggtccaatat 1500  
cacatgtttt tggtcatgtg gttatgtctg gcatattta agaaaacgaa ctatattac 1560  
aacaagttg aagaatatgc aagatgtgcc ctgctcaaga atgagacttt gtgttaagggt 1620  
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aactctatat ataccagtga aagtaaagggt gttgaagata gtgatatgat tcctgaaggt 1860  
ccaagtgcga ccaccattac tcacacaatt tctattgtat gtttggacc aagaaatagg 1920  
cgccgcgcca ttcttagcgc ttgctttca atgatggta ttaatcaatg gctcggtact 1980  
attaaggaaa tagtaggtat aacccacatt ttgcattggac aggttccaca acaacatcac 2040  
agttcattgc ttgcgaaattt cttagtgaca aatcactgga agacgaattt gacggatttt 2100  
tggcttaata gtgatgtaac agcgcccttg tggcaacgat ttttcttattc ttggataact 2160  
tcaaaagcta tggtgggtgg aactgaggtt gactactacg agctatacga atatccggcc 2220  
cgagaaggag aagtattacg tcacaaactaa 2250

<210> 327  
<211> 375  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
<400> 327

atgaaataca acgccaccaa ggcaataagc atcgccccac ctacaataacc cacggtgaac 60  
cccacaatca acgagggtttt ctcatttgaa ttactggaac tagaactaga ggaggaggaa 120

gataaactac tcagttgtga atcggactgt ttcgcacagt atgtggatgg gcacttgtca 180  
catgttaatg aagtctataac acaatattct cctgaagcgc aaacaggca tgatgcagtt 240  
gaatcgcaaa caacacatcc gtcgctgcct ctagttgcag aagttgaaga ggtggctgtg 300  
cttgacaagg atgaacttgc agaagccttg gaggagctcg acatTTTtg tttgattttc 360  
agaaaacgaa cgtaa 375

<210> 328  
<211> 921  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
<400> 328

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ataccatata accaattcaa gaagacgcag ccgcgattca acggcaactt ttctgcactg 120  
aataatgaag aatacataat actctttggc ggaggtcggg acctgatact aggcccctg 180  
acaccttgtt cgagctctca tttgtccaat caagccaacc cacaagacac cagttagtat 240  
ggcacagacc tgtttatact caacagctgc attatcattt ggttcaatgg ctgggatat 300  
gggctggaaa ttccctacag cagcgttttgc taccatgcat caagacggct accagatgg 360  
agggaaaggc ttcaattaga aattttgctg actttggaaa gagacgaagt gttggacatg 420  
ctctaccaaa gcctcgccc acaggcctgc gaattcgacg gcgaagaagc acatgccttc 480  
accgtgcgca gcgtgaaatt gactatcagg cccaaatatt caatatacga tcgcccattat 540  
aacaacgaaa tcgaaaccct ttcaccttc gaaaacttcg gcgtgaacag gggcgatgac 600  
ctggtaaca attgtaacga agcactagcc gtatgcattt acctgcacgg tgaggacgta 660  
caagatcaag accaggaaca ataccaagat ccaagcatgg cgtttgggg tgcgcaagat 720  
ctcaacgcca cgtattctgg gcttggagac acccttcacg ggccgcccgt gtatcagaac 780  
gacgggctgg cagacgatct ggttggcgac ctcgttatgg acaacgtgg ctctaggggt 840  
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aactccagag acaatgaatg a 921

<210> 329  
<211> 1302  
<212> DNA

<213> Saccharomyces cerevisiae  
<400> 329

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ttttgactc caattaggca gtttgat~~a~~ca tcaacatcac ttttattaaa cgaattatgt 120  
tcttctccct ctgaaatcaa cagttattgg aacaagtatt tttg~~g~~ataa gctactatca 180  
tgg~~g~~acagt~~g~~ tttttttat caagaacata acttccaaaa acggaaaacc tcaatttgag 240  
catgaatacg cg~~t~~tttctca g~~t~~tgtggact ttttcgtta ggctgtttat taaaagtaat 300  
aacgat~~a~~ca tctaccatgc cttaagg~~g~~tt ggagttgcaa tagaaaatgt tttat~~t~~ac 360  
ttgtcag~~g~~ta ttgtttata tttctaaca aaaaaaattt tcagccaaaa tataagg~~ca~~ 420  
tcacagttt~~g~~ ctagaactat cgctaaaaaa acatctctgt tg~~t~~tttctt aacgagt~~g~~cc 480  
gctggatttt taacaagcat atattctgaa ccattatctt tttttttgc attt~~g~~ttg~~g~~t 540  
atttggagtc gtgaatgcac catttccgtg cccgtattgg gtcaattcga tatttcgtgg 600  
agatatt~~g~~gt ttccttactc ct~~t~~tatc~~g~~gc atggcttgct ttaccttagc atc~~c~~ttgaat 660  
cg~~t~~caaact gtgtttg~~t~~t agggatttac tttat~~t~~ttg accttattga actaaca~~a~~ag 720  
aacaggaagt ttgtaaaagc aatatgtt~~c~~ ccactattat caggatcatt aatgtttct 780  
gctctactat atcaacaata ttacctacca tataagacat tttgtcctca aagg~~g~~gt~~g~~a 840  
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attcagagtc attattgggg agttgggtta ttgaaatact ggacccaaa caacatccc 960  
aac~~t~~ttt~~t~~gt ttgctgtccc aaatattatt attt~~t~~atct attcctccat atattc~~g~~ 1020  
aaaattt~~t~~atc cctcctataa ct~~g~~agg~~g~~ct ctcgtatg~~g~~a tcaccagagc actgg~~t~~g~~t~~c 1080  
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cac~~t~~ttt~~g~~gt atttggctga tagattgg~~t~~t aaaacttctg atccaaaaaa aatggaaaat 1200  
c~~g~~aaaagg~~g~~t acgataagat agtcaagtt tacatatact gg~~t~~ggcatt ctggata~~c~~t 1260  
ttacagacta tcctatttgc agttttta ccaccagc~~t~~ ga 1302

<210> 330  
<211> 369  
<212> DNA  
<213> Saccharomyces cerevisiae

<400> 330

atgtattcga tggcctttt ggcttcctct ggcttagtgg caaattcttc agcaacagtc 60  
tttaagttga acagagctct aaatctgttg gccaaaactg ttttgcggaa cttgttgact 120  
aagatgtccc ttagttgctc tagagtgcatt tcatcgacgt tttcttgaa atgttttca 180  
aagtttagtag acatgtttt tttttcttt cttgcgtggat atgttagaaag gactacagtt 240  
tatcctaacc taaacctaga gctaccgtca aatatacacg tgtattcact ggatttgcct 300  
tatgttaattt atatgataaa aacttttcag ctcatcgaga aaaattttct ttcctccac 360  
gcaggatag 369

<210> 331  
<211> 2142  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 331

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tacgatttca aaatgaacca gcagctggct gagatgcagc agataagaaa caccgtctac 180  
gaactggaac taactcacag gaaaatgaag gacgcgtacg aagaagagat caagcacttg 240  
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caacagcaac agcagcaaca ggtccagcag catttacaac agcaacagca gcagctagcc 360  
gtgcattctg catctgttcc agttgcgcaaa caaccacccgg ctactacttc ggccacccggc 420  
actccagcag caaacacaac tactggttcg ccattggcct tcccagtaca agctagccgt 480  
cctaattctgg ttggctcaca gttgcctacc accactttgc ctgtgggtgc ctcaaacggcc 540  
caacaacaac taccacaaca gcaactgcaaa cagcagcaac ttcaacaaca gcaaccaccc 600  
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accgcaactg aaactgaaat caaacctaag gaggaagacg ccacccggc tagttgcac 840  
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gtctccgggtt ctggtgaccg taccgttcgt atttggact tacgtacagg ccagtgtca 1560  
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aagctctgga atttgcagaa tgcaaacaac aagagcgatt cgaaaactcc aaattccggc 1860  
acttgtgaag ttacgtatata cgggcataaaa gactttgtat tgtccgtggc caccacacaa 1920  
aatgatgagt acatcttgc cggttccaaa gatcgtggtg tcctgttttggataagaaa 1980  
tccggcaatc cgttattgtat gttgcaagg cataggaatt cagttatatac tgtggctgt 2040  
gcaaacgggt ctccgctggg tccagaatat aacgttttg ctactggtag cggtgattgt 2100  
aaagcaagga tttggaaagta taaaaaaata gcgc当地aaattt aa 2142

<210> 332  
<211> 3108  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 332

atgccagttg agtttgctac caatcctttt ggcgaggcca aaaatgcaac ttcaactgcca 60  
aaatatggta caccggtaac tgccatttca tctgtgtgt tcaataaacgt ggactccatt 120

tttgcttaca agtcctttc tcaacccgat ttgctacacc aagatctaaa aaaatggct 180  
gaaaagcgtg gtaacgaatc acgtggaaag ccattttcc aagagctgga tatcagatct 240  
ggcgctggtt tggctcctt agggtttct catggattga agaacactac agcaattgtt 300  
gctccagggt tttcgctgcc atacttcatt aactcttga aaaccgtctc tcataatgtt 360  
aagtttcttt tgaatgttgg tgcttaaac tacgacaatg ctaccggctc tgtcaccaac 420  
gattatgtaa ccgcatttgg a tgctgcttcc aagctgaagt atgggtcgat gactccgatt 480  
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caaattgtt ttagggcca aactttggat ggttcttcgc cttcttctt gagatctcaa 960  
gttccagccg ctttatTTA ccacggccgc acctcaatta gcgttctga gtacatctat 1020  
caaccagatt tcatttggtc cccaaaagct gtcaaataa ttgtatcgat attcatccct 1080  
gaattcactt acaatgccga ttcattttc ggcgaaggat tcatttattt ggcctctgat 1140  
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<211> 2346  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 339

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2346

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<211> 2193  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 340

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tccaaaaata ttagtttccc tataaattca cattattcaa atcctaataat ctggaaggc 600  
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<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 341

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cagcatgtgt cgtctgataa agaaatttagg gacgcacatcg tgaactcctc aatgaaactg 360  
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2139

<210> 342  
<211> 2295  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 342

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<211> 3165  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 343

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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 344

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<213> *Saccharomyces cerevisiae*  
  
<400> 345

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<210> 346  
<211> 2523  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 346

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2523

<210> 347  
<211> 3537  
<212> DNA

<213> Saccharomyces cerevisiae

<400> 347

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<211> 1020  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 348

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<210> 349  
<211> 1050  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 349

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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 350

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<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 362

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<211> 1179  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 364

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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 365

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<211> 2646  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
<400> 366

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<212> DNA  
<213> *Saccharomyces cerevisiae*

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<211> 1986  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 381

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<400> 382

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<210> 383  
<211> 1503  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 383

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<211> 369  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 384

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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 386  
  
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<212> DNA  
<213> *Saccharomyces cerevisiae*  
<400> 389

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<210> 390  
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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 390

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<211> 2958  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 391

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<210> 392  
<211> 168  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 392

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<210> 393  
<211> 2454  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 393

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<210> 394  
<211> 1788  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 394

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<210> 395  
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<400> 395

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<211> 2040  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 396

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<210> 397  
<211> 2841  
<212> DNA

<213> Saccharomyces cerevisiae

<400> 397

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<211> 1107  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
<400> 398

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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 399

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1875

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<212> DNA  
<213> *Saccharomyces cerevisiae*  
<400> 401

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<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 402

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<212>      DNA
<213>      Saccharomyces cerevisiae
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<213> *Saccharomyces cerevisiae*

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<213> *Saccharomyces cerevisiae*

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<210> 407

<211> 777

<212> DNA

<213> *Saccharomyces cerevisiae*

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<211> 3651  
<212> DNA  
<213> *Saccharomyces cerevisiae*

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<400> 409

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<213> *Saccharomyces cerevisiae*

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<211> 1491  
<212> DNA  
<213> *Saccharomyces cerevisiae*

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<210> 412  
<211> 1431  
<212> DNA  
<213> *Saccharomyces cerevisiae*

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<210> 413  
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<212> DNA  
<213> *Saccharomyces cerevisiae*

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<211> 1023  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 414

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<212> DNA  
<213> *Saccharomyces cerevisiae*

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<211> 2259  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 416

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<211> 2139  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
<400> 417

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gaatacacct tagaattttt ggctaaaggct ggcgtacatg aagttttctt aatttgcct 240  
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gaaaaaattt tagaacagag ttttgacaaa ccggatttga ttctattttag tgcatgggt 1980  
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<210> 418  
<211> 336  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 418

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ataagatttt cgccaataaa aggtaaatgc agccaaaaat caaaatactt cagaagaagt 180  
cgtagcgagg actgctacgt ggaagcggat ttgaagatcc tttccagaac aagaaggagc 240  
cgaaagctgc caggaactgt tcctgattt ttagaaaaac aattaatagg tatctcgct 300  
agcgttagtat ctcgagttc cagaagttgc agataa 336

<210> 419  
<211> 2460  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 419

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atagggggta gcaccccgac caataaaactg aaattttatc catattcgaa caacaattt 180  
acaagaagta cggggacctt gaacctgtca ttaagtaata cagctttgtc agaggctaac 240  
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tctatggaca cttcgttata ccctgcgaaa ttgaggatac cagaaacacc agtgaaaaaa 600  
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tcgtcttctc taagtgttc cccttaaat tttgttgaag acaataattt acaagaagac 720  
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gaatcattat ttccagacat tacgaaagta ga acaaataatg atttatttga ttttggaaaga 2100  
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<210> 420

<211> 1668

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 420

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ttaatcttcg ttgggtctac cattgggtggg cttttattcg gctatgatac tgggtttata 180  
tcaggtgttc tgctttcttt aaagcccgaa gatctatctt tggtagtttt aacggatgtt 240  
cagaaggagc tgataacttc cagtacaagc gtcggatcat ttttggctc tattctggca 300  
ttcccttttag cagataggtt tggagaaga attactctcg caatctgctg ttcaattttt 360  
atcctagctg caattggaat ggctatagca agaacattga cgttttgat ttgtggaga 420  
ttgctggttg ggatcgctgt tggagtgtct gcccagtgcg tccctctatt tctgagtgaa 480  
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ggtaattgg tttcctatgt gattgcgtcc cttatgaaag agattgataa ttcatggaga 600  
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cacagaatgg agccacgcac aataagagcg ttaatagtag gttgcgtt aatgttttc 1080

cagcaaatca ctggctttaa tgctttatg tactatgcgg caataaatatt ttccaaat 1140  
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accattggtg atgaaaatac aatgctcatt tttgctttt tcacagtttgc tgcctgggtt 1560  
ttcgtatatt tttggatcc agaagtcaaa ggttgcac tggaaagggtt tggaaagggtt 1620  
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<210> 421  
<211> 2493  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 421

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aactacgagg ttagttcact atttatggg acggaacggt ttcagattca aaaccatttc 180  
caatcgctcc tagatttagt agacctaattt aatgaaaatg gtggcttggt attcgacttg 240  
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caaataatgtt tcgatccatt attaataata ttggaaagaga agaatccatc aaccttggat 720  
gaccacgttt tggccaaacc tcttatttca ggtttactag gcgagagctt attaataata 780

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cataaggctt catcttgaa tattgactta ttgttattac agccgatatt attagcagat 960  
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<210> 422  
<211> 1731  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 422

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cacccagcac cacctcatga ggcaaagcgt ccacaccatg gaaaaggtcc catgcactca 180  
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<210> 423  
<211> 2199  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 423

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<210> 424  
<211> 936  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 424

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ccaaattact gttatagatg tgtaatgtc gcgagtgtaa tgaaggcgtca tgaggatctg 840  
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<211> 3405  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 425

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cacaacaaca ataaggggtg cgacaccggg aacaacagtg gaagaagaac attcgcaagg 540  
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<211> 345  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 426

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<210> 427  
<211> 2841  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 427

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ttaagtcgta aacgtcaata g 2841

<210> 428  
<211> 1254  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 428

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agggcccagg cacaggagca ggtatgacaag atcggcacca tcaacgagga ggacatctt 180  
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<210> 429  
<211> 1362  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 429

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1362

<210> 430  
<211> 1164  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 430

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<210> 431  
<211> 2469  
<212> DNA

<213> Saccharomyces cerevisiae

<400> 431

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<210> 432  
<211> 2403  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 432

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aagctgggtt ggaccaaggc ttccctctcg aacgaggttc ctaagcaagt ggcaatcaaa 240  
ttaatttagaa gagatacaat caagaaagat gccgataaaag aaattaaaat ataccgcgaa 300  
ataacgcac tgaaggcattt aactcatcct aacattatct atttagaaga ggtcctgcag 360

aattcgaaat acattggaat agtgctagag tttgttatctg ggggagaatt ctataagtat 420  
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agtgggtca attatatgca ctacaaagga cttgttcata gggactaaa actggaaaat 540  
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tttgaagata acgaatataat gaaaacttct tgtggttcgc cctgttatgc agcaccagaa 660  
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tga 2403

<210> 433  
<211> 2241  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 433

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gcggccatta ttccatcccc tgcagccgtt gtgcgcgtt actctgcgc ttccatggca 240  
accaatggcg atgctagtga caccgcgtt accacaaatt atacaaatgc atctatatac 300  
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gagggagaat tacaaaattt agtggaaacc ttgatttga acccgtttac tgcaggacaa 780  
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aacggttat cgcaaggatt ttcatcaagg tgc当地 gagga aactgctgga atattgtata 1920  
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gaaatagtaa gtc当地 acgt aagagagcta gacaatagca ttatcgaccc ttgc当地 tgaag 2040  
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attggatgct acgatgc当地 a 2241

<210> 434  
<211> 1812  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
<400> 434

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aagtatctta ttcccagaat aatcaacttg atggctaca cggtgttca agtgcatact 180  
ttgaaattca atagaaagga ttacgatacc ctttctttt tttacctcaa cagaggatac 240  
tataatgagt tgagttccg tgtcctggaa cggtgttacg aaatagcgag tgccaggccg 300  
aacgacagct ctacgatgct tactttcact gactttgttt ctggcacacc tattgttaagg 360  
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ttactacacg tagatgagct atcgatttt tctgcataacc aagcaagttt acctggcgaa 480  
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<211> 2124  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 435

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ttccaggatg gtggtgtaga tatcatcgaa ttgggtatgc cttctctga tccaaattgca 180  
gatggtccta caattcaatt atctaatact gtggcttgc aaaacggtgt tacctgcct 240  
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<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 436

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gaattaccac cagagtttt cagcatcaat aaacctataat ttaagcttct gcaagcacac 180  
gcaaataaga tttacttcca atttccgac gctgaggctg tatggatgt taaggattct 240  
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aattcctctg tacaagtgcg agacgtggcc atcatagatt ccccttccaa cataaaccas 360

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aattctaaaa gtagtagtga caatgatgct aaaggaaagt atcaaatacg gttttataga 720  
gatgacaaat ccacatctag caagaactgc gttttttta ttccgtacaa tgagtacgtt 780  
caagatattt tctttataa catcaatgct gcagaacctt ctaaaaatat gaacgacttt 840  
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<210> 437  
<211> 2271  
<212> DNA  
<213> *Saccharomyces cerevisiae*

<400> 437  
  
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ccgtatcagc aaattcctag accgcctgct gcaggattta gtatcaacta catgaaagag 180  
caaggctctc atcaatcgat acaagagcat ttacaacgtg agacaggtaa ccttggcagc 240  
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caattatcac cgggccaata ttctatagag tcagagtaca atcaaaattt aaatggcagt 480  
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agacaagtag aagcaccgtt tataccaaag ttgagctcca tcaccgatac tagttcttc 2100  
ccaaccgatg agttggagaa tggtccagat tccccagcta tggcacaagc tgccaaacaa 2160  
aggaaacaga tgacaaagca aggtggaaatg ggcggcgtca aggaagattt accttttattt 2220  
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<211> 2646  
<212> DNA  
<213> *Saccharomyces cerevisiae*  
<400> 438

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gagacaccca gaagtgtAAC aggtcttct gttgacccaa gagacgttgc agacgaagaa 240  
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gataagaggg caccacctgc tgtgcagact agtaaacgtt ataagaaaata tccgaagcta 420  
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<400> 440

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<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
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<212> DNA  
<213> *Saccharomyces cerevisiae*  
  
<400> 442

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